The Johns Hopkins University

Conferring of

Degrees at the

Close of the 117th

Academic Year

May 24, 1993

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JOHNS HOPKINS
UNIVERSITY

Office of the Registrar

75 Garland Hall / 3400 N. Charles Street
Baltimore MD 21218-2688
(410) 516-8080

July ,1993

For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 1993 Commencement Program:

1. Bachelor of Arts (Arts and Sciences) pages 22-24

Add:
Chi Yung Ahn
Charles Neilson Curlett, Jr.
Laura E. Greenwald
Zubin Razzaque Khan

Delete:
Cholmin I. Ahn
Douglas Allen Besen
Paul Anthony Brown
Renan Carlos Castillo
Leon Chao
James Edward Crawford
Robert James Dunn
Kelly Lynn Grey
Lover High,Jr.
Jane Jungeon Hong
Robert Wayne Jenkins
Dennis Joseph McDonald
Emily M. Miller
Michelle Nance
Kate Byxbe Pessin
Carlos Antonio Pfeiffer
David Evan Ross
Adwoa Aya Sanderson
Robert Marshall Searles
Catherine Hughes Tokheim
Jeffrey Michael Wills

2. Bachelor of Science in Biomedical Engineering (Engineering) page 24

Add: Irfan Amanat

3. Bachelor of Science in Chemical Engineering (Engineering) page 24

Delete: Robert William Apollo

4. Bachelor of Science in Electrical Engineering (Engineering) page 25

Delete: John Joseph Pollock

5. Bachelor of Science in Mathematical Science (Engineering) page 25

Delete: Matthew DeBari Junge

6. Performer's Certificates (Peabody) page 26

Add: Eddie Forest Stallings, Jr. Voice

7. Bachelor of Music (Peabody) page 26

Add: Eddie Forest Stallings, Jr. Music Education
Max Vont. Violin

8. Bachelor of Science (Nursing) page 26

Delete: Karen Lee Anderson
Virginia Frederick Buchsbaum
Joan Tamie Fujita
Michelle Marie Hittle
Hector Fitzpatrick Pollydore
Christine Carol Shoul
Marlene Marilyn Smith

9. Master of Science (Continuing Studies) pages 28-36

Add: Deborah M. Brooks, B.S. Shippensburg University, 1988. Education.
Eric Allen Carlton, B.A. University of Maryland Baltimore County, 1991. Education.
James Paul Goodwin, B.A. State University of New York, 1985. Education.
Carolyn Jordan, B.A. University Of Pennsylvania, 1988. Management.
John Norris Huffman, B.S. University of Maryland, 1991.
Valerie Turndahl Low, M.A. University of Maryland, 1973. Education
M.S. The Johns Hopkins University, 1983. Economics.
Donna J. Taylor

Delete: Garth George Clark
Jacquelyn Rajon Hart
Karen L. Hunter
Ziyan Lu
Clodagh Mary Murphy
James T. Ng
Florence Ugochi Okehie
Janine Marie Rasinski
Geraldine Anna Sikorski
Monika Simmons
Weida Frances Walker Stoccker
Randall Lee Stump
Vera Svobodova
Arlette Michelle Thomas

10. Master of Liberal Arts (Continuing Studies) pages 36-37

Delete: John Richard Gill
Alice-Marie Nalley Gravely
Harry Leonard Smith

11. Master of Arts in Teaching (Continuing Studies) page 37

Delete: Cara Lisa Trentacoste

12. Master of Administrative Science (Continuing Studies) pages 38-39

Delete: Silvia E. Frank
Donna J. Taylor

13. Graduate Performance Diploma (Peabody) page 40

Delete: Helen Sarah Callus
Predrag Rogic

14. Master of Music (Peabody) page 41

Add: Debra Jean Fontaine. Voice

15. Artist Diploma (Peabody) page 41

Add: Sun Yu. Voice

16. Master of Public Health (Public Health) p. 43

Add: Ralph Eli LeBlanc

17. Master of International Public Policy (Advanced International Studies) page 46

Delete: Roberto Cajaeti
Ignasi DeJuan-Creix y Breton
Haibin Deng
Yasuhiro Tsuji
J. Michael Willingham
Robert O. Work

18. Master of Arts in International Affairs (Advanced International Studies) page 46

Delete: Donnie J Odoth

19. Master of Arts (Advanced International Studies) pages 47-50

Add: Mary Dale McMurchy, B.A. University of Toronto, 1986.
Margurite Kerr Schrenk, B.A. Middlebury College, 1988.
Samuel Watson, B.A. Duke University, 1976.

Delete: Louis Alvarad
Lauren Anne Arnold
Matthew T. Arnold
Claudio Bardella, Jr.
Julia G. Baumgarten
Donald Bernard
Gary Jonathon Brick
Jennifer Elizabeth Cody
Katherine E. Comerford
Gretchen R. Cook
Douglas J. Crowley
Carolyn A. Ducker
Angelous Joseph K. Mrope
Tine Rossing Nielsen
Lori Leigh Pinkley
Corinne Ann Richardson
Elisabeth Read Russin
Christopher M. Sands
Paul Edward Smyke
Suzie Sri Suparin S. Sudarman
Masato Suzuki
James Postles Thomas, Jr.
Peter Austin Thornton
Dylan C. Tinker

Master of Arts (Advanced International Studies) ppgs.47-50 (continued)...

Jonathon Richard Eisenberg
Tatsuo Fukuda
Scott Edward MacRaibeart Graham
Brad Lawrence Heckman
Jo Hironaka
Sean Mitchel Iverson
Joanne Marilyn Lemmex
David L. Moses
Gregory Joseph Trimboli
Umezu Shin
Mariam Usman
Jehan N.Velji
Nicole Yvonne Venable
Michael George Vickers
Carmen Victor
Marcia Evelyn Warren

20. Master of Arts (Advanced International Studies) continued...

Delete: Scott Wilson
Jennifer L. Wray
Laurence G. Zuriff
Melana Kalyna

21. Master of Environmental Engineering (Engineering) page 50

Delete: Anthony Henry Menzel

22. Master of Material Science and Engineering (Engineering) pages 50

Delete: Brian Ralph Peverly

23. Master of Mechanical Engineering (Engineering) page 51

Add: Malachy McAlonan

Delete: Lowell Garrett Seal

24. Masters Of Science (Engineering) pp.51-61

Add: Todd Anthony Gadowski
Trienne Glover
Dennis Lee Upton, Jr.; Computer Science

Delete: Debra Jane Bostron
Susan Jane Edgar
Kimberly Sue Johnson
Todd Daniel Materazzi
Freud Poe Park
Donald Baker Parker, Jr.
Que Huu Pham
Hung Phan
Daud Santosa
Douglas Wayne Trimble
Thomas Robert Willats

25. Master of Science in Engineering (Engineering) pages 61-63

Delete: Zoher B. Bambot
Pavit Singh Brar
James Andrew Davis
David Kyonghun Han
Sunil Yadav

Revise: Glenn Harwood Sabin - Mathematical Sciences
Karen Beth Singer - Mathematical Sciences
Nabil Tiliket - listed as Tilikete

26. Master of Arts (Arts and Science) pages 63-66

Delete: Wendy Margaret Richardson
Shinji Yamashige
Robert George Zuber

27. Doctor of Philosophy (Arts and Sciences) pages 74

Add: Maryann Cusimano, Political Science

Contents

Order of Procession 1

Order of Events 1

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Johns Hopkins Society of Scholars 5

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Academic Regalia 13

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Degree Candidates 22

Order of Procession

Marshals

Wilda Anderson
David D. Celentano
Oliver Collins
Piero Gleijeses
Eduardo Gonzalez
H. Franklin Herlong
Paul Johnson
Brown L. Murr
Nancy R. Norris
Harlan D. Parker
Judith G. Pearlson
Peter B. Petersen
Edyth H. Schoenrich
Kathleen J. Stebe
Lawrence B. Wolff

The Graduates

Marshals

Michael J. Betenbaugh
Ru Chih C. Huang

The Faculties

Marshals

Marc D. Donohue
Warner E. Love

The Deans
Members of the Society of Scholars
Officers of the University
The Trustees

Chief Marshal

Stephen F. Szabo

The President of the Johns Hopkins University Alumni Association
The Chaplains
The Faculty Presenter of the Doctoral Candidates
The Presenters of the Honorary Degree Candidates
The Honorary Degree Candidates
The Provost of the University
The Chairman of the Board of Trustees
The President of the Federal Republic of Germany
The President of the University

Order of Events

William C. Richardson
President of the University, presiding

Prelude

Colonel Bogie March
Kenneth Alford (1881-1945)

Homage March
Edvard Grieg (1843-1907)

Sonata 22
Johann Pezel (1639-1694)

Contrapunctus III
J.S. Bach (1685-1750)

Fanfare from LaPerie
Paul Dukas (1865-1935)

Processional

The audience is requested to stand as the Academic Procession moves into the area and to remain standing after the Invocation

Marches from Belshazzar, Floridante, Ezio, Judas Maccabaeus, Saint Cecilia's Day, and Rinaldo
Georg Friedrich Handel (1685-1759)

The President's Procession

Fanfare
Walter Piston
(1894-1976)

March from Scipione
Georg Friedrich Handel
(1685-1759)

Invocation

Joseph Katz
Rabbi for the Johns Hopkins University Homewood Campus

The National Anthem of Germany
The National Anthem of the United States of America

Greetings

Morris Offit
Chairman of the Board of Trustees

Greetings

John M. Brickman
President, The Johns Hopkins University Alumni Association

Presentation of New Members of The Society of Scholars

Romesh C. Batra
Myron F. Goodman
Morley D. Hollenberg
Edward W. Hook, Jr.
Thomas S. Inui
Martin H. Johnson
Baruch A. Kipnis
Edward R. Laws, Jr.
Gavril W. Pasternak
Timothy J. Pedley
Bernard Robaire
Robert J. Ruben
George A. Silver
Jean Starobinski
Thomas E. Starzl
Juzer M. Vasi

Scholars Presented by Joseph Cooper
Provost of the University

Musical Interlude

The Festival Brass
Ellery B. Woodworth, Conducting
Fanfare from Festmusik der Stadt Wein
Richard Strauss (1864-1949)

Conferring of Honorary Degrees

Richard L. Gelb
Josephine Jacobsen
Louis L. Kaplan
Barry L. Levinson
Merton H. Miller
Daniel C. Tosteson
Richard von Weizsäcker

Address

Richard von Weizsäcker
The President of the Federal Republic of Germany

Conferring of Degrees on Candidates

Bachelors of Arts

Presented by
Lloyd Armstrong, Jr.
Dean, School of Arts and Sciences

Bachelors of Science in Biomedical Engineering
Bachelors of Science in Chemical Engineering
Bachelors of Science in Civil Engineering
Bachelors of Science in Computer Science
Bachelors of Science in Electrical Engineering
Bachelors of Science in Engineering Mechanics
Bachelors of Science in Materials Science and Engineering
Bachelors of Science in Mathematical Sciences
Bachelors of Science in Mechanical Engineering
Bachelors of Arts
Bachelor of Arts in Biomedical Engineering
Bachelor of Arts in Computer Science
Bachelor of Arts in Geography
Bachelors of Civil Engineering
Bachelors of Electrical Engineering
Bachelors of Mechanical Engineering

Presented by
Don P. Giddens
Dean, G.W.C. Whiting School of Engineering

Performer's Certificates
Bachelors of Music

Presented by
Robert O. Pierce
Director, Peabody Conservatory of Music

Bachelors of Science

Presented by
Carol J. Gray
Dean, School of Nursing

Associates of Science
Bachelors of Liberal Arts
Bachelors of Science

Presented by
Stanley C. Gabor
Dean, School of Continuing Studies

Masters of Science
Masters of Liberal Arts
Masters of Arts in Teaching
Masters of Administrative Science
Masters of Drama Studies
Certificates of Advanced Study

Presented by
Stanley C. Gabor
Dean, School of Continuing Studies

Masters of Science
Masters of Science in Nursing

Presented by
Carol J. Gray
Dean, School of Nursing

Graduate Performance Diplomas
Masters of Music

Presented by
Robert O. Pierce
Director, Peabody Conservatory of Music

Masters of Science
Masters of Health Science
Masters of Public Health

Presented by
Alfred Sommer
Dean, School of Hygiene and Public Health

Masters of International Public Policy
Masters of Arts in International Affairs
Masters of Arts

Presented by
George R. Packard
Dean, Paul H. Nitze School of Advanced International Studies

Masters of Arts

Presented by
Michael E. Johns
Dean, School of Medicine

Masters of Chemical Engineering
Masters of Civil Engineering
Masters of Environmental Engineering
Masters of Materials Science and Engineering
Masters of Mechanical Engineering
Masters of Science
Post-Master's Advanced Certificates
Masters of Science in Engineering
Masters of Arts
Masters of Science
Masters of Civil Engineering

Presented by
Don P. Giddens
Dean, G.W.C. Whiting School of Engineering

Masters of Arts

Presented by
Lloyd Armstrong, Jr.
Dean, School of Arts and Sciences

Doctors of Education

Presented by
Stanley C. Gabor
Dean, School of Continuing Studies

Artist Diplomas
Doctors of Musical Arts

Presented by
Robert O. Pierce
Director, Peabody Conservatory of Music

Doctors of Science
Doctors of Public Health
Doctors of Philosophy

Presented by
Alfred Sommer
Dean, School of Hygiene and Public Health

Doctors of Philosophy

Presented by
George R. Packard
Dean, Paul H. Nitze School of Advanced International Studies

Doctors of Medicine
Doctors of Philosophy

Presented by
Michael E. Johns
Dean, School of Medicine

Doctors of Philosophy
Presented by
Don P. Giddens
Dean, G.W.C. Whiting School of Engineering

Doctors of Philosophy
Presented by
Lloyd Armstrong, Jr.
Dean, School of Arts and Sciences

Statement to the Graduates
William C. Richardson
President of the University

Benediction
Gretchen van Utt
Chaplain
The Johns Hopkins University

Recessional
March from Athalie
Felix Mendelssohn
(1809-1847)

The audience is requested to remain standing after the Benediction until the principals, officials, members of the faculties, and the graduates have left the area.

Divisional Diploma Ceremonies Information

The Arts and Sciences Masters Diploma Reception will be held immediately following Commencement in the Great Hall of the Union Building. Recipients of Ph.D. degrees from Arts and Sciences and their guests are welcome.

The Engineering Masters Diploma Award Ceremony was held last evening.

The Arts and Sciences and Engineering Undergraduate Diploma Award Ceremony will be held at 2:30 p.m. this afternoon on the Keyser Quadrangle.

The School of Continuing Studies Undergraduate and Graduate Diploma Award Ceremony will be held at 7:30 p.m. this evening on the Keyser Quadrangle. Reception to follow.

The Paul H. Nitze School of Advanced International Studies Diploma Award Ceremony will be held at 3:00 p.m. this afternoon at the First Baptist Church of the City of Washington, 16th and "O" Streets, N.W., followed by a reception at the Nitze School.

The School of Hygiene and Public Health Diploma Award Ceremony was held yesterday afternoon.

The School of Medicine Diploma Award Ceremony will be held at Goucher College at 3:00 p.m. this afternoon.

The School of Nursing Diploma Award Ceremony will be held in the Turner Auditorium at the School of Medicine at 4:00 p.m. today.

The Peabody Conservatory's Diploma Award Ceremony will be held in the Miriam A. Friedberg Concert Hall at 8:00 p.m. this evening.

The Johns Hopkins Society of Scholars

The Johns Hopkins Society of Scholars was created on the recommendation of President Milton S. Eisenhower and approved by the University Board of Trustees on May 1, 1967. The society—the first of its kind in the nation—inducts former postdoctoral fellows and junior or visiting faculty who have gained marked distinction in their fields of physical, biological, medical, social, or engineering sciences, or the humanities, and for whom at least five years have elapsed since their Hopkins affiliation. The Committee of the Johns Hopkins Society of Scholars, whose members are equally distributed among the academic divisions, elects the scholars from the candidates nominated by the academic divisions having programs for postdoctoral fellows. The scholars are invested at the time of Commencement, Commemoration Day, or a similar occasion. They are presented with a diploma and with a medallion on a black and gold ribbon, to be worn with their academic costumes.

Today, we honor 16 new inductees, invested at a ceremony yesterday afternoon, who bring the society's membership to 297. They are:

Dr. Romesh C. Batra
Rolla, Missouri

Dr. Batra's research has embraced the areas of fluid mechanics, elasticity, viscoelasticity, penetration mechanics, and adiabatic shear banding. In each of the last six years, he has been honored by the University of Missouri with a Faculty Excellence Award in recognition of his superior performance in research, teaching, and service.

Dr. Myron F. Goodman
Los Angeles, California

A recognized authority on the biochemical basis of mutations, Dr. Goodman has developed a unique research program that has yielded original insights into the natural causes of errors in DNA replication. His models of error correction and prevention have provided a theoretical basis for an understanding of the molecular basis of genetic disease.

Dr. Morley D. Hollenberg
Calgary, Alberta, Canada

A leading figure in the field of peptide hormone research, Dr. Hollenberg's innovative and critical investigations of epidermal growth factor (urogastrone) and insulin have significantly advanced understanding of hormone-receptor interactions.

Dr. Edward Watson Hook
Charlottesville, Virginia

Dr. Hook's studies of the epidemiology, pathogenesis, and treatment of bacterial infections have advanced knowledge of the clinical manifestations of endocarditis and the mechanisms by which salmonella develop antibiotic resistance. His 21-year tenure as director of the Department of Medicine at the University of Virginia is among the longest on record in the United States.

Dr. Thomas S. Inui
Boston, Massachusetts

A leading example of the academic physician-scholar, Dr. Inui is devoted to the application of the principles of community medicine in his everyday clinical and scholarly work. Among the issues with which he has been most concerned are the effectiveness of health services, patient-physician communication, and preventive care in clinical practice.

Dr. Martin Hume Johnson
Cambridge, England

An outstanding teacher, writer, and experimentalist, Dr. Johnson has made major contributions to the understanding of early mammalian development, including that of humans. His research approach to a rational study of early human development had important practical consequences for in vitro fertilization.

Dr. Baruch A. Kipnis
Haifa, Israel

Combining theoretical studies of land use and metropolitan development with studies of rural settlement and industrial concentration, Dr. Kipnis has made major contributions to research on spatial aspects of human settlements. He is founder and head of the Haifa and Galilee Research Institute, which is conducting research on geographic aspects of northern Israel and adjacent regions.

Dr. Edward R. Laws Jr.
Charlottesville, Virginia

An expert in the management of pituitary tumors and gliomas, Dr. Laws' research has contributed significantly in the areas of neuro-oncology, histochemistry, cytochemistry, and experimental biology of brain tumors.

Dr. Gavril W. Pasternak
New York, New York

As one of the leading opiate basic researchers in the country, Dr. Pasternak's contributions have involved differentiating subtypes of opiate receptors that are differentially affected by drugs, leading to identification of agents that can provide analgesia with a lower incidence of side effects.

Dr. Timothy J. Pedley
Leeds, England

A leading authority in physiological fluid mechanics, Dr. Pedley has made numerous contributions to the dynamics of unsteady blood flow by bringing analytical and numerical techniques in fluid mechanics to bear on various physiological processes. His work has clarified many aspects of blood flow separation, instability and bifurcation.

Dr. Bernard Robaire
Montreal, Quebec, Canada

With research interests spanning basic studies of reproductive toxicology and fertility regulation, Dr. Robaire has made significant discoveries in the areas of regulation of the structure and function of the mammalian epididymis, the effects of toxic agents on fertility, and the regulation of the hypothalamo-pituitary-testicular axis in mammals.

Dr. Robert J. Ruben
New York, New York

A pioneer in the field of research on the development of the auditory system, Dr. Ruben is noted for ground-breaking studies on the organ culture of the mammalian inner ear and for important clinical contributions to the understanding of human communication as it relates to both hearing and speech.

Dr. George A. Silver
New Haven, Connecticut

As a leading figure in maternal and child health in the United States, Dr. Silver has served at virtually all levels of the health care system. He has been the source of provocative and stimulating ideas, questioning the basic tenets of the health care delivery system and providing innovative suggestions for new forms of organization and finance.

Dr. Jean Starobinski
Geneva, Switzerland

One of the most prominent scholars in the field of French studies today, Dr. Starobinski's books and essays on the literature and intellectual history of the 17th, 18th, and 19th centuries have earned him great stature and influence in the fields of French studies, literary criticism, and psychoanalytic criticism.

Dr. Thomas Earl Starzl
Pittsburgh, Pennsylvania

A pre-eminent clinician-scientist for the past several decades, Dr. Starzl has made major contributions in kidney transplantation and was a pioneer in liver transplantation. He was also a pioneer in cluster transplants, the transplanting of several organs simultaneously into a patient.

Dr. Juzer M. Vasi
Bombay, India

An internationally recognized expert in the growth of silicon dioxide and in concomitant defect states that limit or determine device performance, Dr. Vasi has made major contributions to the field of microelectronics, including an understanding of electric breakdown of submicron thin films and solution of major problems in the breakdown and instability of insulators.

Honorary Degree Citations

Citation read by
Alfred Sommer
in Presenting
Richard L. Gelb
for the Degree of Doctor of Humane Letters
May 24, 1993

As chief executive of one of the world's largest pharmaceutical and health product firms, you repeatedly have demonstrated that business and science, business and health care, and business and society can work hand-in-hand to tackle some of the most daunting health challenges that confront us today.

Your success in business alone would qualify you as a noteworthy figure of our time. Since 1972, when you were named chief executive officer of what is now Bristol-Myers Squibb Company, sales have risen from $1.2 billion to more than $11 billion.

But there is much more to consider. Under your guidance, the company moved into new areas that benefit the health of men, women, and children around the world. The company has emerged as a leader in fighting cancer, and its new therapies have made it possible for hundreds of thousands of cancer victims to live longer, richer lives. Thousands of children have benefited from specially developed formulas to counter inborn errors of metabolism. Pioneering programs in the neurosciences, nutrition, anti-infectious agents, and orthopedic devices evidence the contribution that dedicated private initiative can make to human advancement.

Not content with the impact of in-house research, you initiated a major commitment to the unrestricted funding of biomedical research elsewhere. By the end of last year, some $40 million in company funds had been committed to more than 100 biomedical institutions around the world. In addition, many innovative medications developed by the company—Taxol and the anti-AIDS drug Videx, among others—are made available free of charge to those without the means to buy them.

Richard L. Gelb, for your concern and your commitment to the societal responsibility that epitomizes the most principled aspects of American business, The Johns Hopkins University confers upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation read by
Richard A. Macksey
in Presenting
Josephine Jacobsen
for the Degree of Doctor of Humane Letters
May 24, 1993

During a literary career that now spans more than 70 years, you have educated us with the precision of your language, moved us with the angle of your vision, and inspired us with the curve of your bold and generous life. Last month, in presenting you for the Shelley Memorial Award of the Poetry Society of America, Nobel laureate Joseph Brodsky celebrated you as an enduring talent that "belongs in a constellation with Louise Bogan and Elizabeth Bishop." Earlier, in citing you for the Lenore Marshall Prize, another fellow poet, William Jay Smith, reminded us that your poetry is "intimately related to distant truth," stands apart from transient fashions, and shines with the "reticence and reverence" that we associate with the achievement of Marianne Moore.

You are admired equally for your poetry and your fiction, for the remarkable clarity with which you

record the world around you, human and inhuman, and for the uncommon courage with which you reveal to us our common mortality.

You began your career at the age of 11 with the publication of your first poem. Almost 60 years later, you published your first collection of short stories, which firmly established your reputation in that genre. Your prose is distinguished by the same exactness, energetic insight, and compassion that have long marked your poetry.

You served two terms from 1971 to 1973 as consultant in poetry to the Library of Congress, a post recently retitled national poet laureate. To this position, as many of your peers (in a profession not noted for its generosity) have testified, you brought an acute ear for the excellence of others, a shrewd critical intelligence, and an understanding heart. Early and late, you have been a teacher, mentor, and friend to many other writers, helping them to find their own way.

Like very few poets, you have succeeded in writing some of your most original, your most moving, and your most truthful work in the decades of your 70s and 80s. Arising from springs of wide experience, deep feeling, and keen perception, this work is a constant refreshment and a sure antidote to what you have warned us is the most dangerous thing in the world for the writer and the reader: habit.

Josephine Jacobsen, in gratitude for your radiant poetry, fiction, and criticism, which force us to brush aside the "anesthesia of habit," The Johns Hopkins University confers upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation read by
Harvey M. Meyerhoff
in Presenting
Louis L. Kaplan
for the Degree of Doctor of Humane Letters
May 24, 1993

You have dedicated your life to education: Jewish education, public higher education, the education of individuals. At 28, you were president of Baltimore Hebrew College; under your leadership for 40 years, that institution grew into a university. You have been called the "father of creative Jewish learning in Baltimore," yet your devotion to education reached far beyond the Jewish community. For almost a quarter century, you served on the University of Maryland Board of Regents, which you led as chairman from 1970 until 1975.

You have been a religious leader in Baltimore for more than 60 years, helping establish three synagogues. But one of your favorite teachings has been that "study is more important than prayer, and good deeds are more important than both." Your good deeds have left their mark not just on Maryland, but on the world. In 1946, Denmark awarded you the King Christian X Liberation Medal for your leadership in raising funds for relief of Danish Jews who escaped to Sweden during World War II. Since 1970, you have served as executive vice president of The Joseph Meyerhoff Fund, working to improve the quality of life in our city, state, and nation and in Israel. In that process, of course, I was given a rare opportunity to know you intimately—and to learn—continuing a relationship with our family that began with your arrival in Baltimore more than 60 years ago.

Yet teaching has always remained your first love. Today, at 90, you still find time for one-on-one conversations, meeting with eager students over lunch or in a rare free hour. You say you get more from these exchanges than your students do; you say teaching keeps you young. Perhaps so, but it is also your spirit, your refusal to accept the status quo and your determination to do battle over what is right that keeps you young and vital.

Louis Kaplan, for your devotion to lifelong learning and teaching, for your brilliant and tireless leadership, and for your efforts to make Baltimore and the world more humane places, The Johns Hopkins University confers upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation read by
Jerome Christensen
in Presenting
Barry Levinson
for the Degree of Doctor of Humane Letters
May 24, 1993

For more than 20 years you have blessed audiences with your humor, your vision of the world and, perhaps most of all, your affection for your hometown, Baltimore. After you set out for Hollywood, your father, Irv, predicted you would be back working for him at his appliance store within a month. Fortunately for us, he misjudged your talent.

But he was right in the larger sense. Though you have won Emmies, Writers Guild and Golden Globe awards, and the Oscar for Best Director for the film *Rain Man*, you did come back home, time and again, through the rich tapestry of your memories. In what critics call your Baltimore Trilogy of *Avalon*, *Tin Men*, and the film that launched your directorial career, *Diner*, you lovingly recreated our past. And without over-sentimentalization or melodrama, you have brought audiences to our door stoops, revealing the values, hopes, desires and frustrations of ordinary people, the neighbors with whom you and your family grew up. You create characters we know, and you make their lives, and our memories, resonate.

But what most of us do not know about are your activities out from behind the camera. Along with your wife, Diana, also a Baltimorean, you participate actively in the world community. You lend your name and give your time and financial support to children's organizations, such as the Pediatric AIDS Foundation, and to environmental causes, such as The Rainforest Foundation. Your concern and involvement reaches back home, as you continue to contribute generously to local charities, you support the Orioles and you are working hard to return professional football to Baltimore.

Barry Levinson, for making us laugh, for helping us to remember, for working to improve the world in which you live and for being an outstanding ambassador of Baltimore and Maryland, The Johns Hopkins University confers upon you the honorary degree of Doctor of Humane Letters, *honoris causa*.

Citation read by
Louis Maccini
in Presenting
Merton H. Miller
for the Degree of Doctor of Humane Letters
May 24, 1993

You are truly one of the founding fathers of the modern theory of finance. You have been a pioneer in illuminating and improving the behavior of financial markets by the use of rigorous economic analysis.

You and previous Nobel laureate Franco Modigliani revolutionized the subject of corporate finance in 1958 by deriving the celebrated MM propositions about the value of a firm. You showed that in a well-functioning capital market without tax or other distortions, the total value of a firm depends on the amount of riskiness of the future returns that it can be expected to generate, but not on the manner in which those returns are divided up among stockholders and bondholders. Your propositions were initially greeted with great skepticism and resistance, but after extended debate, they are now widely accepted and taught. They have become an integral part of the foundations of the modern theory of capital markets.

In your subsequent work, you have become an authority on many aspects of finance, from leverage to taxation to arbitrage to index futures. Your outstanding capacities have been recognized both in academia and in

the practical world. You were chosen by the Chicago Mercantile Exchange to head its Committee of Inquiry into the stock market decline of October 1987, and you served as president of the American Finance Association. Your doctoral dissertation adviser at Johns Hopkins was certainly correct when he wrote of you in 1953, "We forecast for him a very distinguished career." That career was honored in 1990 when you were awarded the Nobel Memorial Prize in Economic Science.

Merton Miller, for pathbreaking work in the theory of finance and for constructive application of your deep practical wisdom about the role and function of financial markets, The Johns Hopkins University confers upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation read by
Michael Johns
in Presenting
Daniel C. Tosteson
for the Degree of Doctor of Humane Letters
May 24, 1993

You are known among deans of American medical schools as the leader in medical education, for in your 15 years as dean of the Harvard Medical School, you have transformed medical education in the United States. You brought about this revolution by putting education first at Harvard, at a time when training young doctors often was a lower priority than promoting research or cutting costs for patient care. Your enthusiasm inspired your faculty to rededicate themselves to physician training, and your example stimulated other medical schools to examine their objectives and their training process.

It is fitting that you accomplished these advances while at Harvard, for Harvard University trained you and shaped you as a scientist and doctor more than 40 years ago. You have always been devoted to biomedical science and research, and you have made great strides in furthering our knowledge of the physiology of ion exchange across membranes. Yet early in your career, you also took on the role of teacher. In 1958, you joined the Washington School of Medicine, and you have been dedicated to education ever since.

At Harvard, you directed the "new pathway" for medical education, by integrating patient involvement and clinical experience with rigorous training in the basic sciences. You stressed the relevance of medical research to clinical problems by having medical students learn from both clinical scientists and basic scientists in small groups.

Daniel Tosteson, for your excellence as a medical scientist, for your innovative leadership in medical education, and for your dedication and humanity, The Johns Hopkins University confers upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read By
Steven Muller
in Presenting
Richard von Weiszäcker
for the Degree of Doctor of Humane Letters
May 24, 1993

Having served as lord mayor of free Berlin when that city was still divided, you were elevated above the political fray in 1984 to serve as head of state of the German democracy. The Basic Law of the Federal Republic

bestows little power on the president, but you have enormously enhanced the influence and stature of your office by the integrity and moral force of your personality.

When the two German states so suddenly and unexpectedly became one, you recognized from the outset that unification would be neither easy nor painless. In word and deed, you have become a living symbol of your nation's unity, speaking out for fairness and equity during the difficult process of economic and social dislocation.

You condemn eruptions of hatred against foreigners and refugees. You condemn all attempts to resurrect fascist ideology and rhetoric. You will not allow your fellow Germans to forget the tragedy of the Nazi past. "Anyone who closes his eyes to the past," you have said, "is blind to the present. Whoever refuses to remember the inhumanity is prone to new risks of infection."

Richard von Weiszäcker, your voice as president has become the voice of Germany's conscience, appealing unfailingly to all that is best in the German people. In gratitude for your outstanding commitment to human freedom and your splendid leadership in the cause of human decency and civility, The Johns Hopkins University confers upon you the degree of Doctor of Humane Letters, *honoris causa.*

The University Mace

The University Mace carried by the Chief Marshal, Dr. Stephen F. Szabo, was first used at the 1954 Commemoration Day Exercises. Eight symbols are hand wrought in sterling silver on an ebony staff. The symbols represent our cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

The Presidential Insignia

University President William C. Richardson is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of each of the eleven Johns Hopkins University Presidents are engraved on the faces of eleven of the links. On the reverse are engraved the names and dates of office of each President. Five blank links for future use are included. The University Seal completes the design.

Academic Dress

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round, but has changed to the varieties that we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms worn through the slits in the elbows of the sleeves. The Doctor's gown, also worn open, has full, bell-shaped sleeves with three horizontal bars stitched across the upper arm. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are of the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one half feet long. The Doctor's hood is four feet long, of fuller shape and rounded at the base.

The hood is bordered with velvet, the color of which indicates the field of study in which the bachelor's, master's, or doctoral degree was earned:

Dark blue–Philosophy
Light blue–Education
Green–Medicine
Salmon pink–Public Health
Orange–Engineering
Gold-yellow–Science
White–Arts and Letters
Pink–Music
Purple–Laws
Apricot–Nursing
Tan–Business

The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold chevron–Johns Hopkins
Light blue, white chevron–Columbia
Dark blue–Yale
Blue with white chevron–Duke
Dark blue, two orange chevrons–Illinois
Light blue, two white chevrons–North Carolina
Old gold, maroon chevron–Minnesota
Old gold–Iowa
Gold, blue chevron–University of California at Berkeley
Gold–Virginia
Purple, gold chevron–Northwestern
Carnegie Tartan–Carnegie-Mellon
Purple–New York University
Bright red–Wisconsin
Plum, with scarlet-London
Maroon-Chicago
Crimson-Harvard
Carnelian, two white chevrons-Cornell
Cardinal-Stanford
Cardinal red and gray-Massachusetts Institute of Technology
Red, tri-Chevron in center-Heidelberg
Dandelion yellow-Michigan
Maize, azure blue chevron-Sorbonne
Yellow and white-Rochester

The University Motto

Veritas vos liberabit.
The truth shall make you free.
–St. John 8:32

Awards

In The Schools of Arts and Sciences, Engineering and Medicine

Louis Sudler Prize in the Arts
for excellence in the creative arts
Awarded to Masami Izumida

In The Schools of Arts and Sciences, Engineering

Alpha Sigma Mu Award
to recognize academic excellence in Materials Science and Engineering among juniors and seniors
Awarded to Michael Y. Shin
John Jason Sprague

Roberto R. Arellano Award
for excellence in writing by a Writing Seminars undergraduate
Awarded to Laura Perkinson

AT&T Outstanding Senior Award in Computer Science
Awarded to William Henry Hsu

Louis Azrael Fellowship in Communications
for demonstrated excellence in a field of mass communications
Awarded to Kenneth Aaron
Audrey Babics
Michelle Dubs
Michael Gluck
Clay Haskell
Per Jambeck
Albert T. Su

Biomedical Engineering Award
for outstanding effort in research in Biomedical Engineering
Awarded to Edwin M. Posadas

Biomedical Engineering Distinguished Service Award
for outstanding service to the academic community
Awarded to Edwin M. Posadas

Alexander Butler Prize
for the best research paper by a first year graduate student in History
Awarded to Jotham Parsons

Mary Farrell Camerer Award
for excellence in writing by a Writing Seminars undergraduate
Awarded to Kathryn Grunder

Eugenio and Patricia Castillo Award in Economics
to the best first or second year student
Awarded to Mary Burke
Sung Kim

Chemical Engineering Undergraduate Research Award
for demonstrated contributions to research in Chemical Engineering
Awarded to Christopher F. Kirby

Civil Engineering Award
for outstanding achievement by a senior in Civil Engineering
Awarded to Karen M. Waitkus

G. Stanley Hall Prize
for outstanding achievement by an undergraduate in Psychology
Awarded to Kathleen Rose Mohrle

The Max Hochschild Fund
The prize is awarded annually to the undergraduate student in Business and Industrial Management who has shown great promise and proficiency in this field and is
Awarded to Marc Spear

The Jacob H. Hollander Prize
for excellence in writing by a Writing Seminars undergraduate
Awarded to Christine Piepszak

The 3 Arts Club of Homeland Award
for excellence in writing by a Writing Seminars undergraduate
Awarded to Michael Hobson

William H. Huggins Award
for outstanding service and achievement by a senior and junior in Electrical and Computer Engineering
Awarded to Sunil Lachman Kukreja
(Class of '93)
Andrew E. Arluk
(Class of '94)

IBM Outstanding Undergraduate Award in Computer Science
Awarded to Phyllis Adele Schneck

Richard J. Johns Award
for outstanding academic achievement in Biomedical Engineering
Awarded to David Chand
Lisa A. Enz
Ali H. Mesiwala
Tara L. Riemer

Adolf Katzenellenbogen Memorial Prize
for outstanding work in Art History
Awarded to Cathleen Ann Fleck

Donald E. Kerr Memorial Medal
to the outstanding undergraduate majors in Physics and Astronomy
Jointly Awarded to Zack E. Sullivan and
Amy E. Duwel

Arthur Kouguell Prize
to the outstanding undergraduate major in History
Awarded to Christine Sarudy
Jonathan Cohen

Ernest M. Marks Award
in recognition of excellence in instruction and research in Chemistry
Awarded to Jared N. Cumming

Mathematical Sciences Achievement Award
for outstanding achievement by an undergraduate in Mathematical Sciences
Awarded to Eric J. Vigoda

Paul A. McCoy Prize
for the most distinguished master's essay in Political Science
Awarded to Ronald E. Walters

The William D. McElroy Award
for meritorious research conducted by an undergraduate in the biological sciences
Awarded to George Yang

The Robert G. Merrick, Jr. Achievement Award is awarded by the Zanvyl Krieger Mind/Brain Institute for outstanding undergraduate research at the interface between the mind and brain
Awarded to Mark G. Baxter
Jennifer Hopp
Erica D. Palmer
Jonathan Gerber

Robert B. Pond, Sr. Achievement Award to the graduating senior in Materials Science and Engineering who best exemplifies Professor Pond's commitment to scholarly and humane values
Awarded to Peter F. Cheng

President's Commendation for Achievement in the Arts
for outstanding contributions to the arts in the Johns Hopkins Community by a graduating senior
Awarded to Andrew Bragen

The Curt P. Richter Award in Behavioral Biology
in recognition of outstanding achievement in the Behavioral Biology Program
Awarded to Jeanne Barton
Karen Neil
Alexander Rotenberg

Sarah & Adolph Roseman Achievement Award
in recognition of outstanding accomplishment in Chemistry
Awarded to Jing Chen

Julian C. Stanley Award
for the undergraduate psychology major who most closely approximates Dr. Stanley's personal and professional standards of excellence
Awarded to Mark Baxter

The J.J. Sylvester Prize
for outstanding achievement by a senior in Mathematics
Awarded to Aaron Daniel Hoag

Robert W. Tucker Award
for the most distinguished senior thesis in International Studies
Awarded to Charles James Green
Aaron Seeskin

Julius Turner Prize
for the most distinguished senior thesis in Political Science
Awarded to Neeli Ben-David

Undergraduate Service Award
for outstanding service to the Department of Psychology to be
Awarded to Jodi Nordmann

The John Boswell Whitehead Award
for outstanding achievements by an undergraduate in Electrical and Computer Engineering
Awarded to Joseph Edward Groszkiewicz (Class of '93)

Loy Wilkinson Award
for a demonstrated record of academic excellence, leadership, and service in Chemical Engineering
Awarded to Albert Chen

In The Peabody Conservatory of Music

Pauline Favin Prize in Piano
Awarded to Heidi Buxman

Lillian Gutman Memorial Prize in Piano
Awarded to Bai Huey Kuo

Rose Marie Milholland Award in Piano
Awarded to Shih-Yu Cheng

Ada Arens Morawetz Prize in Composition
Awarded to Nathaniel Phillips

Otto Ortmann Award in Composition
Awarded to Mark Weiser

P. Bruce Blair Award in Composition
Awarded to Clifton Callender

Randolph S. Rothschild Award
Awarded to Russell Grazier

Rose and Lou Becker Memorial Prize in Violin
Awarded to Injoo Choi, Christian Colberg and Julia Grueninger

Israel Dorman Memorial Award in Strings
Awarded to Pei Lu

Josef Kaspar Award in Violin
Awarded to Gastone Coccia-Vinsi

Melissa Tiller Memorial Award in Violin
Awarded to Cleveland Chandler

J.C. Van Hulsteyn Prize in Violin
Awarded to Huang Bin

Sidney M. Friedberg Prize in Chamber Music
Awarded to Helen Callus and Annie Chang

The George Castelle Prize in Voice
Awarded to Jeffrey Buchman and Elizabeth Knauer

Marian B. and Samuel Bernstein Memorial Prize in Opera
Awarded to Gerald Atkins

Charles M. Eaton Award in Voice
Awarded to Georgine Duncan

Anita Erdman Award in Opera
Awarded to Tracey Scher

Zaidee T. Thomas Award in Voice
Awarded to Laura Wilkes

Martha and William Bill Memorial Prize in Clarinet
Awarded to Steven Carter

Britton Johnson Memorial Prize in Flute
Awarded to Lucy Chang and Leela Srinivasan

Maryland State Teachers Association Award
Awarded to Marcella Brigliadoro

Harold Randolph Prize in Performance
Awarded to Mary Fasold

Alice and Leary Taylor Prize in Performance
Awarded to Patricia Johnson

Zaidee T. Thomas Award in Instrumental Performance
Awarded to Sonja Inglefield and Michael Kurth

The Three Arts Club of Homeland (Artist Diploma)
Awarded to Brian Ganz

Sabina M. Ragland Prize in Performance
Awarded to Jorge Peña, Angela Revis and Mark Stebbins

In The School of Nursing

Emma Jones Beckwith Cullen Award
in recognition of the highest standards of nursing practice and executive ability
Awarded to Deborah Jean Baker
Peggy Elaine Jarrett

Eleanor Wade Custer Award
to a student who most successfully combines commitment to the nursing profession with sensitivity to one's fellowman
Awarded to Katherine Jean Lorand
Deborah Kutenplon

Betty Cuthbert Award
to a student who demonstrates outstanding commitment and service to nursing and the University
Awarded to Paul David Capcara
Leslie Anne Cavill

Mary and Grainger Marburg Award
in recognition of a student who consistently exhibits outstanding clinical nursing expertise
Awarded to Michelle Lynn Felix
Catherine Ann McGovern

Robert G. Merrick Award
to a student demonstrating outstanding leadership in the field of nursing
Awarded to Veronica Ann Oberdorf

Ruth Dale Ogilby Award
in recognition of exceptional academic performance in the Master's program
Awarded to Magda Spector Bechar
Cheryl Sue Keller
Michelle Ann Simon

Edna Schoen Memorial Award
to a student demonstrating excellence in clinical practice
Awarded to John Edward Frank
Jodi Maurice Ianaro

Joan Sutton Award
to a student demonstrating a strong dedication to professional nursing, clinical excellence, and interdisciplinary practice
Awarded to Joan Tamie Fujita
Atsuko Kitagawa Podgurski

Academic Excellence Award
to a student whose academic performance has been judged to be outstanding
Awarded to Cynthia Duter
Rebecca Schlott Redett
Karyn Jean Ritchie
Sally Katherine Wells

Research Award
to a student demonstrating intellectual curiosity and creativity in nursing research
Awarded to Karyn Jean Ritchie
Shireen Rusby Howard

The Church Home and Hospital Nursing Alumnae Award
recognizes a student who best exemplifies a humanistic approach to nursing while integrating the art, science and the spirit of nursing
Awarded to Josephine Enyonam Phidelia Aggor

The Johns Hopkins Nurses' Alumni Association Award
recognizes a student whose leadership ability is combined with clinical competence and an inquiring mind
Awarded to Jacqueline Rae D'Amico

Sinai Nurses' Alumnae Association of Sinai Hospital, Inc.
recognizes a student who exhibits enthusiasm, compassion and a positive approach to problem solving in nursing
Awarded to Carol Ann Zyra

In The School of Continuing Studies

Delta Sigma Pi Scholarship Key
in the Division of Business and Management for the highest average in the undergraduate programs
Awarded to Linda Watts

Edward J. Stegman, C.P.A., Memorial Award
in the Division of Business and Management for excellence in the study of Administrative Science at the graduate level
Awarded to Theodore J. Agres
Charles W. Newman
Mark Christopher Anderson
Maureen O'Brien-Wielepski
Mary Ann M. Andrulewicz
Edward Milton Parker, Jr.
Cheryl Christine Battee
Patricia M. Peldo
Brian Anthony Bonacci
Jeffrey A. Powell
Theresa Cunningham Burke
Russell Todd Richardson
Lisa Eileen Butler
Robin Beth Sanders
Raymond Anderson Cooke
Edyth Florence Sanford
Annalisa Mary Margaret Cooper
Christine M. Shipley
Allison Marie Coyle
John Gilbert Soult, Jr.
Kevin Michael Cronin
Noah Austin Spivak
Michael Francis Dockman
Michael David Stough
Diane Fornario Etson
Jason Taule
Elise Patterson Evans
Frederick A. Thompson
Kimberly Ann Lindner Fanto
Esther H. Title
Deborah Ann Godfrey
Edward Scott Tuvin
Kathleen Moragan Happ
Kenneth Robert Walsch, Jr.
Candice Honroth-Beaver
Nancy Lynne Garlitz
Andrew Roy Iserson Weisgerber
Mark Alan Likness
Theodore Roosevelt Williams, Jr.
Mark David Leskanic
Marie Adrienne Mann
Chee Kheong Wong
Lori Kaomea Zudock

Wall Street Journal Student Achievement Award
in the Division of Business and Management for outstanding scholarship in the undergraduate programs and exceptional promise of future success
Awarded to Victor Klaput

In The School of Medicine

The Henry Strong Denison Scholarship
The Henry Strong Denison Fund for Medical Research in memory of Henry Strong Denison, M.D., 1908, is used for the specific purpose of aiding in the training for research of young people deemed by the Medical Faculty to be especially gifted for a career in medical investigation.
Awarded to Nathan Greenleaf Stone Congdon–1990–91
Kris Harlan Jenner–1990-91
Michael James Polydefkis–1989-90
Ingrid U. Scott–1991-92
Marc Wayne Urquhart–1991-92
Lisa Beth Jacobs–1992-93

Sandoz Award
This award provided by the Sandoz Pharmaceutical Company recognizes excellence in the field of Pharmacology.
Awarded to Anthony Raymond Welch–1992-93

Laurel And Clarence H. Koennecke Award
The Laurel and Clarence H. Koennecke Award was established to recognize those students showing most promise in the surgical field of Gynecology.
Awarded to Elizabeth Sarah Chabner–1992-93

The Franklin Paine Mall Prize in Anatomy
The Franklin Paine Mall Prize in Anatomy established by Dr. Miley B. Weston, an alumnus of the School of Medicine, is given in the name of Franklin Paine Mall, the first professor of Anatomy in the School of Medicine.
Awarded to Scott Curtis Brun–1989-90
Nathan Greenleaf Stone Congdon–1988-89
Sonya Karen Danoff–1986-87
William Robert Hobbs–1989-90
Taras Wolodymyr Masnyk–1989-90
Evelio Domingo Perez-Albuerne–1985-86

The Paul Ehrlich Awards
The Paul Ehrlich Awards were established to honor Dr. Paul Ehrlich with funding originally granted by Dr. Emmanuel Libman. The awards, which recognize student research contributions, are presented each year at Young Investigators' Day.

The Paul Ehrlich Research Award
Awarded to Geoffrey Stuart Pitt–1992-93
The Paul Ehrlich Graduate Student Award
Awarded to Anthony Raymond Welch–1992-93

The Paul Ehrlich Basic Science Award
Awarded to Christopher Dean Ferris–1991-92

The Paul Ehrlich Medical Student Award
Awarded to Nathan Greenleaf Stone Congdon–1992-93
Michael James Polydefkis–1989-90

Michael A. Shanoff Research Award
The award is made annually to a student for significant research contribution in the medical sciences. The award is made possible by a bequest from the family and friends of the late Dr. Michael A. Shanoff, who earned his undergraduate degree and M.D. and Ph.D. degrees from The Johns Hopkins University.
Awarded to David Scott Bredt–1991-92
Shannath Louise Merbs–1992-93

The David Israel Macht Memorial Prize
The David Israel Macht Memorial Prize was established in 1983 by the family of Dr. Macht to commemorate the centenary of his birth. Dr. Macht was a member of the faculty of the Departments of Pharmacology and Medicine in the early part of this century and was a pioneer investigator in the field of opiate alkaloids. The prize is intended to recognize excellence in investigation by a student in the School of Medicine.
Awarded to Donald Bruce Arnold–1991-92

The Martin and Carol Macht Research Prize
The Martin and Carol Macht Research Prize is awarded to a doctoral candidate whose research evidences elegance in science, originality in thought and creativity in approach. The prize given for the first time this year, was made possible by a donation from the Machts of Cincinnati, Ohio. Martin Macht, who earned his medical degree and doctorate at Hopkins, is a professor of medicine and psychiatry at the University of Cincinnati. Carol Macht holds a doctorate in fine arts and archaeology.
Awarded to Weei-Chin Lin–1992-93

The W. Barry Wood Student Research Award
The W. Barry Wood Student Research Award recognizes present commitment and future promise in research.
Awarded to David Eric Symer–1991-92

Harold Lamport Biomedical Research Prize
The memory of Dr. Harold Lamport, a distinguished investigator, is honored by this prize established by the Lamport Foundation. The prize recognizes research contributions.
Awarded to Louis Vernacchio

CIBA Award for Outstanding Community Service
The CIBA Pharmaceutical Company makes a yearly award to that student in the second year of the School of Medicine who is judged by classmates to have made the greatest contribution to our community.
Awarded to Stephanie Lynn Kouns–1990-91

In The School of Hygiene and Public Health

Alumni Association Scholarship Award to students of outstanding promise
Awarded to Morna Oruch Smith (1984)

Frederik B. Bang Award
for an outstanding research idea in the area of pathobiology
Awarded to Theodore Dean Kessis (1991)

Ruth B. Freeman Award
to a graduating doctoral nurse to recognize academic performance and an outstanding thesis
Awarded to Dora Lynn Warren

Paul A. Harper Award
to a degree candidate in the Department of Population Dynamics to recognize both achievement and promise of contributions to the field of population
Awarded to Marilyn Ingrid Wilkinson

John C. Hume Doctoral Award
to a graduate for significant research in the Department of Health Policy and Management
Awarded to Donald Wayne Corneil

John C. Hume Master of Public Health Award
to a graduate for academic excellence and professional promise
Awarded to Diane Frankenfield
Ariane van der Straten Ponthoz

Cornelius W. Krusé Award
for scholarly excellence in Environmental Health Sciences
Awarded to Kathryn Zuckerman Guyton

Harry D. Kruse Award
for outstanding doctoral research in the field of nutrition and public health
Awarded to Mary Edmonds Cogswell (1989)
Edward Jerome Crane III (1992)
Francisco José Rosales (1990)

Mary B. Meyer Award
to students in the Department of Epidemiology for academic excellence
Awarded to James Gerard Donahue (1992)
Dora Lynn Warren (1991)

John P. Young Memorial Prize
for the best student paper in the field of health finance economics
Awarded to Sandra Duff Cassard (1990)
Robert Ian Griffiths (1991)

In The Paul H. Nitze School of Advanced International Studies

William C. Foster Award
to a second year student for sound scholarship and a record of leadership and distinguished service to SAIS exemplary of the high qualities of integrity, loyalty and ability admired in Mr. Foster
Awarded to Lisa Jeannette Bransten
Elizabeth Anne Corrigan
Jehan N. Velji

Christian A. Herter Fellowship
to the member of the second year class with the most outstanding record during the first year
Awarded to Raoul E. LeBlanc

Honor Societies

Phi Betta Kappa

From the Junior Class in the School of Arts and Sciences

Lisa Ruth Blackman
David Chen
Jason Tsai Chen
Louis Chao-Hsi Chen
Steven Chen
Progna Paramita Choudhury
Suzanne Maria Datto
Renuka Edpuganti
Kimberly Ann Ennico
Jonathan Michael Gerber
Cynthia T. Hsu
Richard C. Hsu
Mihir Mahendra Jani
Joshua Michael Karlip
Nancy Ann Lentz
Setu S. Mazumdar
Stefano Maria Saccone
Justin Stanley Smith

From the Senior Class in the School of Arts and Sciences Elected in 1991-92

Irfan Ansari
Daniel Rabin Brown
Ilil Carmi
Jared Keith Ellman
Barbara Kristen Fischer
Ira Martin Garonzik
Aaron Daniel Hoag
Matthew Joel Horwitz
Bart Duncan Jeffress
Michael Shi-Young Lee
Marc Spear
Lynn Margaret Tuttle

Elected in 1992-93

Andrew Benjamin Ackerman
John William Aldridge
John Joseph Allegretti
Elizabeth Colwell Bancroft
Jeanne Michelle Barton
Mark Graham Baxter
Andrew Jay Bernstein
Gopa Bhattacharyya
Michael Paul Bibler
Mark Alan Bittinger
Robin Elizabeth Brillante
Kathryn Corrine Brown
Edward Lau-Yue Chan
Andrew Lawrence Chen
Connie Lynn Chen
Christopher Scott Chiota
Judy Yuh-Jiuan Chow
Jonathan M. Cohen
Danielle Marie Demko
Kimberly Anne Dillard
Theresa Thuy-Anh Dinh
Amy E. Duwel
Robert Hale Easton
Garrett David Evers
Eric Fan
Reid Griffith Fontaine
Christophe Michel Fraise
Amanpal Singh Garcha
Peter Matthew Gliatto
Charles James Green
Kathryn Mary Grunder
Omar John Gucer
Pranay Gupta
Chitra Komal Jaipaul
Saman P. Javedan
Jimmy Hoon Jee
Shoba Kammula
Frank C. Lai
Eunice Wan-Yew Lau
Ben Hokew Lee
Eric Cheng-Jer Lee
James J. Lee
Jack Alan Levy
Katherine Elizabeth Mansour
Yasmin Sultana Meah
Gregory Quinn Miranda
Kathleen Rose Mohrle
Sean Paul Montgomery
David Lynn Morehous
Karen Payton Neil
Derek Edmund Neilson
William Sung Pae
Jonathan Edward Paikin
Juan Carl Pallais
Bonnie Lynn Pankov
Amy Melissa Parker
Namrata Bakulesh Patel
Jamie Jennifer Perry
Michele Lynn Probst
Vivek Rajagopal
Daniel Raymond Reed
Paul Richard Reynolds
Simeon Meir Schopf
Edward C. Sha
Michael C. Sha
Amish V. Shah
Prachi Shah
Nina Nilofer Shaikh
Keith Brian Sharfman
Nancy Huey-Tang Shiau
Stephanie Lee Sisk
Vivian Lynn Slager
David Lowell Sorkin
Marcus Edward St. John
Zack Edward Sullivan
Jeannie Teck-Ling Tan
John Vandevort Tarpley
Apostolos John Tsiouris
Charles William Wagner
George C. Yang

From the Doctor of Philosophy Candidates in the School of Arts and Sciences

Mary Ann Price
Qiang Xiao

From the School of Medicine

Charles Rye Pound

From the School of Hygiene and Public Health

James G. Donahue
John L. Musachio

From the Paul H. Nitze School of Advanced International Studies

Rachel Anita Censor
David Nathan Diamond
Sylvia Irene Gaylord
Jonathan R. Gewurz
Richard Ku Murray

Tau Betta Pi

National Engineering Honor Society

From the Junior Class in the G.W.C. Whiting School of Engineering

Anver Abdulla
Andrew Arluk
Gulamali Emadi
Amir Fayazi
Adam Hoyhtya
Aravindan Kolandaivelu
Seong-Schik Lee
Eric Lowe
Krista Ruark
Jeffrey Thompson
Kathleen Vuong
Christine Wu
Seung Woo

From the Senior Class in the G.W.C. Whiting School of Engineering

Elected in 1991-92

Amit Agarwala
Carl Bruecken
Andrew Chen
Thomas Chou
David Chow
Francis Chow
Lisa Enz
Joseph Groskewisz
Hon-Chong Ho
Eric Maurer
Elliott Menschik
Ali Mesiwala
Michael Ponticiello
Edwin Posadas
Steven Renquist
Tara Riemer
Michael Shin
John Jason Sprague
Scott Straka
Samuel Tong
Sovanrith Tun
Joshua Uth
Karen Waitkus
Jeffrey Weller
Geoffrey Wise
Jason Wolfson

Elected in 1992-93

Samuel Baldwin
James Cassidy
David Chand
Robert Chen
Steve Choung
Alison Lai
Eugene Lee
Tamara Meskunas
Brian Newcomb
Trac Nghiem
Michael Zelman

*White stoles worn on candidates' robes indicate their induction in Tau Beta Pi.

Alpah Omega Alpha
Honor Medical Society

Diane Julie Bauer
Scott Curtis Brun
Nathan Greenleaf Stone Congdon
Elizabeth Halstead Cuervo
Sonye Karen Danoff
Nestor Felix Esnaola
Elliott Nicholas Exar
Carol Parks Geer
William Robert Hobbs
Amy P. Lee
Taras Wolodymyr Masnyk
Matthew Gordon Meldorf
Darren Keith McGuire
Robert David Newman
Ngoc-Ha Thi Nguyen
Robert Selling Poston, Jr.
Charles Rye Pound
Karen Cecilia Richards
Scott Owen Sykes
Michael Ernest Soverino
Louis Vernacchio
Kimon Cleomenes Zachary

Delta Omega
National Public Health
Honor Society

Karabi Bhattacharyya
Indu Bhushan
Anne-Emanuelle Birn
Patrice Gabler Blair
David Preston Bodycombe
Paul Anthony Bolton
Margaret O'Brien Caughy
Nathan Greenleaf Stone Congdon
James Gerard Donahue
Marc Allan Feldman
Patricia Anne Flowers-Coulson
Diane Frankenfield
Hervé Louis Guillain
Jeffrey Randall Harris
James A. Higgins
Jan Barbara King
Susan Delancy Kitun
Matthew Brian Krebs
Steven Scott Krotzer
Jennafer Lynne Kwait
Jiangang Liao
Steven Arthur Meador
John Louis Musachio
Ann Shaheen O'Malley
Daniel Michael Panisko
Desireé Buehler Pendergrass
Thomas Perneger
Robert John Reid
Paul J. Rückert
Brigitte Santos-Eggimann
Ingrid Ursula Scott
Catherine Courtney Slemp
Thomas Patrick Storey
Christine Elizabeth Weber
Beth Kaufman Zimmerman

Pi Kappa Lambda
National Music
Honor Society

John Bowen
Heidi Buxman
Clifton Callender
Mary Fasold
Deborah Graiko
Russell Grazier
Kwang-Wu Kim
Michael Kurth
Adele Lynch
John Root
Leela Srinivasan
Ivana Svarc
Gastone Coccia Vinsi
Daniel Weiser

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Nursing

Josephine Enyonam Phidelia Aggor
Amy Elizabeth Barlow
**Magda Spector Bechar*
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Christina Berglund
Christine Elene Carlsten
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Jennifer Lynn Chipps
Jacqueline Rae D'Amico
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Rebecca Ann Doyle
Kristin Michelle Egan
Susan Ann Galusha
Shireen Rusby Howard
Carolyn Anne Spindler Kotz
Katherine Jean Lorand
Catherine Ann McGovern
Linda Huber McPheters
Kerry Coulter Metz
Caitlin Maureen Nass
Kathleen Ryan Nelson
Karla Kristine Ogle
Anne Marie Ozlin
Joyce Marie Pasterak
Martha Schlenger Rabicoff
Mary Elizabeth Roberts
Diana Todd Sansing
**Laura Carton Sessions*
Christine Carol Shoul
Nancy Kathryn Shull
**Michelle Ann Simon*
Karen A. Taylor
Sheila Mae Thenne
Sally Katherine Wells
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*Graduate Students

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John Joseph Allegretti
Irfan Ansari
John Timothy Antoniades
Susan Paige Arthur
Thomas Joon Bahk
Roshan Osborne Balachandran
Elizabeth Colwell Bancroft
Jeanne Michelle Barton
Mark Graham Baxter
Neeli Ben-David
Andrew Jay Bernstein
Erik John Bertin
Gopa Bhattacharyya
Michael Paul Bibler
Anne Marie Bingham
Mark Alan Bittinger
Robin Elizabeth Brillante
Kathryn Corinne Brown
Shauna Celestina Bryce
Jacqueline Ann Caffrey
Ilil Carmi
Rachel A. Censor
Joseph Allan Chalom
Edward Lan-Yue Chan
Shefali Chaudhry
Andrew Lawrence Chen
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Christopher Scott Chiota
Christopher Struthers Chivvis
Chung-Ih John Chou
James Chi-Tai Chou
Judy Yuh-Jiuan Chow
Jonathan Micah Cohen
Paul Joseph Davenport
Lisa Ann Del Gaudio
Danielle Marie Demko
David Nathan Diamond
Rachelle Anne Diamond
Kimberly Anne Dillard
Theresa Thuy-Anh Dinh
Jonathan Wells Dixon
Maurice Albert Dostal
Amy Elizabeth Duwel
Robert Hale Easton
Jared Keith Ellman
Garrett David Evers
Ugochukwu Anthony Ezenkwele
Eric Fan
Jacqueline Farris
Barbara Kristen Fischer
Reid Griffith Fontaine
Christophe Michel Fraise
Ann May Freeman
Amanpal Singh Garcha
Ira Martin Garonzik
Sylvia Irene Gaylord
Jonathan Robert-Alan Gewurz
Peter Matthew Gliatto
Alexander Gomelsky
Charles James Green
Kathryn Mary Grunder
Omar John Gucer
Pranay Gupta
Katherine Olivia White Hardy
Aaron Daniel Hoag
Michael Winston Hobson II
Jane Jungeon Hong
Matthew Joel Horwitz
Julie Cha-huey Huang
Albert Hwang
Maryam Jaberi
Chitra Komal Jaipaul
Saman P. Javedan
Jimmy Jae-Hoon Jee
Bart Duncan Jeffress
Kunal Jerath
Aaron Hao Jun
Charles Edward Kahn
Shoba Kammula
Jack Shih-Chieh Kao
Kathleen Michelle Koski
Kevin Dong-Heon Kwak
Steven A. Lacher
Frank C. Lai
Eunice Wan-Yew Lau
Karen Ruth Levy
Ben Hokew Lee
Eric Cheng-Jer Lee
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Michael Shi-young Lee
Jack Alan Levy
Matthew Wheeler Mabie
Anne Marie Manicone
Katherine E. Mansour
John Richard Mattox II
Yasmin Sultana Meah
Rachel Laura Meltzer
Karen Anne Mimms
Kathleen Rose Mohrle
Heather Anne Montgomery
Sean Paul Montgomery
David Lynn Morehous
Martin Tomas Murphy
Richard Ku Murray
Laura Catherine Nagel
Shardul Ashwin Nanavati
Karen Payton Neil
Derek Edmund Neilson
Erica L. Nemser
Jodi Ellen Nordmann
William Sung Pae
Jonathan Edward Paikin
Juan Carl Pallais
Rocky Pan
Bonnie Lyne Pankov
Amy Melissa Parker
Namrata B. Patel
Laura Luann Perkinson
Jamie J. Perry
Geoffrey Ian Postel
Michele Lynn Probst
Aliya Parveen Qureshi
Vivek Rajagopal
Daniel Raymond Reed
Paul Richard Reynolds
Lyle Roberts
Alexander Rotenberg
Josiah Meyer Rotenberg
Lilliane Helene Samel
Marc Jeffrey Schneider
Simeon Meir Schopf
Jonathan Louis Schwarz
Aaron William Seeskin
James Harris Segil
Edward Chih-Chun Sha
Michael Chih-Yu Sha
Anish V. Shah
Prachi Edlagan Shah
Reshma Shah
Nina Nilofar Shaikh
Keith Brian Sharfman
Nancy Huey-Tang Shiau
Marian Jeong-Won Shin
Mike Shin
Jennifer Lynn Simmons
Stephanie Lee Sisk
Nayan Sivamurthy
Vivian Lynn Slager
David Lowell Sorkin
Marc Read Spear
Marcus Edward St. John
Zack Edward Sullivan
Mark Joseph Swift
Jeannie Teck Ling Tan
John Vandevort Tarpley
Terry Lyle Trimble
Apostolos John Tsiouris
Lynn Margaret Tuttle
Richard Tyson
Charles William Wagner
Richard Chris Wang
Daina Beth Wellen
Christopher Robertson Wilson
Laura Marie Woodney
George C. Yang
Daniel A. Yelenik
Robert Alan Zirkin

Baccalaureate Candidates in The G.W.C. Whiting School of Engineering Graduating with General Honors

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Amit Omprakash Agarwala
Samuel Planten Baldwin
Gerald William Brann
Carl J. Bruecken
James Joseph Cassidy
David Vasant Chand
Jey-Hsin Chen
Robert Shi-Sen Chen
Thomas Tao Chou
Steven C. Choung
David Chow
Francis P. Chow
Lisa Ann Enz
Joseph E. Groszkiewicz
Hon-Chong Ho
William Henry Hsu
Eugene Lee
Eric John Maur_r
Elliot D. Menschik
Ali Hakim Mesiwala
Tamara Marie Meskunas
Brian David Newcomb
Trac Xuan Nghiem
Michael Shawn Ponticiello
Edwin Melencio Posadas
Steven Craig Renquist
Tara Lynn Riemer
Young-Moon Michael Shin
John Jason Sprague
Scott William Straka
Samuel Cheng Shang Tong
Sovanrith Tun
Joshua Robert Uth
Karen Marie Waitkus
Jeffrey Charles Weller
Jason Todd Wolfson
Michael J. Zelman

Baccalaureate Candidates in The School of Arts and Sciences Graduating with Departmental Honors

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Enrique Desmond Arias
Amber Raine Ashton
Jeanne Michelle Barton
Neeli Ben-David
Gopa Bhattacharyya
Mark Alan Bittinger
Megan Elizabeth Bowles
Shauna Celestina Bryce
Connie Lynn Chen
David L. Cohen
Jonathan Micah Cohen
Jason Edward Conti
David Nathan Diamond
Kimberly Anne Dillard
Maurice Albert Dostal
Amy Elizabeth Duwel
Clifford Ryan Earle
Robert Hale Easton
David Louis Edelman
Jacob Einhorn
Jared Keith Ellman
Yu-Hua Fang
Jacqueline Farris
Leon Evan Finch
Barbara Kristen Fischer
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Ann Mary Freeman
Ira Martin Garonzik
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Charles Thomas Gibson
Alexander Gomelsky
Charles James Green
Kathryn Mary Grunder
Tamar Yael Hausman
Aaron Daniel Hoag
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Maryam Jaberi
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Shoba Kammula
Jack Shih-Chieh Kao
Hans Young Kim
John Wook Kim
Daniel William Knee
James Jeongjune Lee
Michael Shi-young Lee
Jack Alan Levy
Kelly Marie Mann
Philip Maguid Mansour
Adam A. Mazmanian
Thomas Christopher McCoy
Rachel Laura Meltzer
Richard Allen Mortimer
Richard Ku Murray
Karen Payton Neil
Jodi Ellen Nordmann
William Sung Pae
Bonnie Lyne Pankov
Amy Melissa Parker
Rajul Arvind Patel
Alexander Rotenberg
Christine Marie Sarudy
Simeon Meir Schopf
Jonathan Louis Schwarz
Aaron William Seeskin
James Harris Segil
Nina Nilofar Shaikh
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Zack Edward Sullivan
Rae Stacey Tan
John Vandevort Tarpley
Geoffrey Kenneth Torrington
Babak Vakili
Charles William Wagner
Daina Beth Wellen
Ryan Scott Whinnem
Laura Marie Woodney
George C. Yang
Marya K. Zamindar
Robert Alan Zirkin

Graduates from the Biology Honors Program

Julie Cha-huey Huang
William Sung Pae
George C. Yang

Graduates from the Humanistic Studies Honors Program

Courtney Graff
Dickson Tang
Isabella Winkler

Baccalaureate Candidates in The G.W.C. Whiting School of Engineering Graduating with Departmental Honors

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Amit Omprakash Agarwala
Samuel Planten Baldwin
Gerald William Brann
Carl J. Bruecken
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Joseph E. Groszkiewicz
Hon-Chong Ho
William Henry Hsu
Engene Lee
Eric John Maurer
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Steven Craig Renquist
Tara Lynn Riemer
Michael Y. Shin
John Jason Sprague
Scott William Straka
Samuel Cheng Shang Tong
Sovanrith Tun
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Cynthia Monkman
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Lourdes Villalva-Muguerza
Linda Watts
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Mary Whittaker
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Hai Thanh Dong
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Thomas Martin Meisel
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as of May 1, 1993

Bachelors of Arts in The School of Arts and Sciences

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John Timothy Antoniades
Enrique Desmond Arias
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Benjamin Abebe Asfaw
Amber Raine Ashton
Jami Ann Attenberg
Leon Darnell Atterbury
Thomas Joon Bahk
Firouzeh Diana Bahrampour
Brent Thomas Baker
Roshan Osborne Balachandran
Elizabeth Colwell Bancroft
John P. Banks
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Marisa Ellen Barra
Jeanne Michelle Barton
Thomas Richard Baugher
Mark Graham Baxter
Amy Elizabeth Beacht
Charles Ralph Beamon
Nathan Reidar Bean
Steven Charles Belkin
Neeli Ben-David
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Robert F. Burke
Victoria M. Burke
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Jennifer Keith Cannon
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Leon Chao
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Katherine Anne Crowley
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Kathleen Grant Curry
Sara Ellen Cushing
Paul Joseph Davenport
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William Edgar Deitrick, Jr.
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David Louis Edelman
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Jared Keith Ellman
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Kimberly Anne Fahrenbrook
Eric Fan
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Jacqueline Farris
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Avram Mathias Fisher
Kenneth Edward Fisher
Daniel Bennett Flynn
Reid Griffith Fontaine
Christophe Michel Fraise
Christopher Robert Frappier
Bradley Fravel
Ann Mary Freeman
Julia Friedman
Rachelle Nicole Gajadhar
Amanpal Singh Garcha
Jay Prakash Garg
Giancarlo Garipoli
Ira Martin Garonzik
John Franklin Garvish
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Dina Rynel Johnson
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Shoba Kammula
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Michael David Kedansky
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Kevin Theodore Kelly
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Joon H. Kim
Kyung Ho Kim
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Holly Catherine Klink
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Kyung Lee
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Michael Douglas Medeiros
William Neil Mehl
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Michael Jonathan Metz
Manuel Paul Micaller, Jr.
Philip Lawrence Michaelson
Adrienne Ingrid Miller
Darin M. Miller
Emily M. Miller
Michael Berry Miller
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Bonnie Min
Kevin Todd Mintzer
Gregory Quinn Miranda
Sonya Zita Mitchell
Kathleen Rose Mohrle
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Anthony Scott Mollica
Matthew M. Moniot
Heather Anne Montgomery
Sean Paul Montgomery
David Lynn Morehous
Seth Lawrence Morgulas
Luci Angela Morrone
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Anna Susan Moss
Carrie Kate Moylan
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Noriko Okahara
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Malika D. Owens
Jessica H. Oyugi
William Sung Pae
Jonathan Edward Paikin
Juan Carl Pallais
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Dhruv Pandya
Bonnie Lyne Pankov
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Amy Melissa Parker
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Rajul Arvind Patel
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Danielle Celeste Picher
Brian Chi Tao Pien
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Lisa Marlene Pratt
Michele Lynn Probst
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Heidi Eve Puchner
James Patrick Quinn

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Aliya Parveen Qureshi
Elizabeth Ann Rainville
Pritham M. Raj
Vivek Rajagopal
Jordan Paul Ramacciato
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Lucia Rambusch
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Kasra Ramyar
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Daniel Raymond Reed
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James Todd Reisinger
Jodi Rachel Reiter
Paul Richard Reynolds
Michael David Ricci
Travis Bernard Richardson
Jonathan David Ring
Lyle Roberts
Michael Lee Rodrigue II
Lilly Ana Oronoz Rodriguez
Blair Alanson Rosenblatt
David Evan Ross
Matthew Evan Ross
Alexander Rotenberg
Josiah Meyer Rotenberg
Nunilo Ignacio John Rubio, Jr.
Christopher Lowell Russelll
Beth Melissa Saiff
Lilliane Helene Samel
Astrid Maria Sande
Adwoa Aya Sanderson
Ramon Rabor Santiago
Christine Marie Sarudy
Dean Howard Saxe
Amy Judith Schlossberg
Matthew Adam Schmelzer
Leah Schmulewitz
Andrew Robert Schneider
Marc Jeffrey Schneider
Simeon Meir Schopf
Richard Alan Schwartz
Jonathan Louis Schwarz
Lisa Michele Scorsolini
Sigrid Maria Scruggs
Robert Marshall Searles
Christine Carole Seeger
Aaron William Seeskin
James Harris Segil
Edward Chih-Chou Sha
Michael Chih-Yu Sha
Anne Deford Shachoy
Amish V. Shah
Prachi Edlagan Shah
Reshma Shah
Svati Hasmukh Shah
Nina Nilofar Shaikh
Keith Brian Sharfman
Richard Barry Shane, Jr.
John N. Shevillo
Nancy Huey-Tang Shiau
Ming Chang Shih
Marian Jeong-Won Shin
Mike Shin
Irene Nickole Shraybman
Jennifer Lynn Simmons
John Michael Simpkins
Stephanie Lee Sisk
Nayan Sivamurthy
Richard Leroy Skolasky, Jr.
Vivian Lynn Slager
Eileen Marie Smith
Earl Robert Snodgrass
Daniel Sohng
Kathleen Alana Sokolowski
Garrett John Solomon
Joseph James Soriano
David Lowell Sorkin
Roger David Sorkin
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Ronnie Hal Spring
Frances Elizabeth Spurry
Derek Michael Spychalski
Robin Heather Steckler
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Thomas Matthew Sullivan
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Jeannie Teck Ling Tan
Rae Stacey Tan
Nucgaek Thoy Tandhasetti
John Vandevort Tarpley
Kelly Lee Taylor
Roxanne Gregorio Tena
Sumeska Thavarajah
Kimberley Ann Thompson
Allyson Anne Thornton
Catherine Hughes Tokheim
Daniel Malcolm Toloudis
Yukari Tomozawa
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Apostolos John Tsiouris
Peter Anthony Tucci
Lynn Margaret Tuttle
Paul Andrew Tyrell
Richard Tyson
Stephen Richard Uss
Babak Vakili
Michael Wesley Van de Kieft
Amy Lynn Van Allen
Katrina Vanvalen
Stephen Paul Vecchione
Robin Jennifer Vereeke
Luke Andrew Viano
Derik Ben Viner
Christina von Riesenfelder
Daniel Eric Wachsman
Charles William Wagner
Wendy Ann Waller
Ray Kuang Wang
Richard Chris Wang
Craig Frank Warren
Meredith Elyse Watkins
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Marc Robert Weinhouse
Amanda Kay Weiss
Joshua Reid Weiss
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Leslie John Williams
Megan Jane Williams
Veronica Anne Williams
Jeffrey Michael Wills
Christopher Robertson Wilson
Melissa Corinne Wilson
Isabella Winkler
Pamela Anne Winsky
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McDonald Edward Wrenn
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Robert Ho Yu
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Charlie Chia-Hua Chan
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Edward Tyler Chang
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William N. Checkley
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Carl Arthur Fischer
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Hon-Chong Ho
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Fariah Habib Khan
Glenn Scott Le Prell
Raulie Hung-Tung Lo
Scott Christian Martin
Erik Oliver Martz
Eric John Maurer
Ali Hakim Mesiwala
Kwan Yat Mok
Brian David Newcomb
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Patrick Roger Norris
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Howard Kenneth Prol
Stevie Sook Rhim
Tara Lynn Riemer
Michael Paul Sabadish
Douglas Salvador
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Matthew Scott Shive
Joshua Siegel
Scott William Straka
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Jeffrey Charles Weller
Nancy Lynn Werner

Bachelors of Science in Chemical Engineering in The G.W.C. Whiting School of Engineering

Bradford Corby Andrews
Robert William Apollo
Samuel Planten Baldwin
Albert B. Chen
Chi Yon Chong
James Aloysius Dietz
Ryan Timothy Gill
Timothy Paul Harrah
Christopher Frederick Kirby
Aileen Hernandez Reyes
Eduardo Luis Sánchez
William Edward Turner
Donna Lynn Williamson

Bachelors of Science in Civil Engineering in The G.W.C. Whiting School of Engineering

Mark Juergen Aengenheyster
Christopher Ronald Coleman
Christopher M. Crosby
Amelia Jo Dix
Anthony Robert Gagliostro
Charles Christopher Glass
Luria Nicole Greene
Sylke Sabina Knuppel
KinYan Lui
Doreen Ilana Patron
Elisse C.N. Takara
James Albert Tartal
Karen Marie Waitkus

Bachelors of Science in Computer Science in The G.W.C. Whiting School of Engineering

Justin David Chandler
Michael Scott Fitz
William Henry Hsu
Matthew Edward Kenney
Eric Krody
Phyllis Adele Schneck

Bachelors of Science in Electrical Engineering in The G.W.C. Whiting School of Engineering

Michael Allan Bentkofsky
Gerald William Brann
Carl J. Bruecken
Anthony Phillip Caruso
Shaokao Cheng
Sarah Justine Elizabeth Christiano
Ricky Wenkuei Chuang
Patrick Joseph Doran
John William Emig II
Nathaniel E. Forgotson
Sudeshna Serena Ghosh
Joseph E. Groszkiewicz
John L. Hammen
Robert Yung-kai Hsi
Wesleyan Hsu
Timothy Michael Hu
Ethan Frederic Imboden
Mike Joonhan Kim
Sunil Lachman Kukreja
Eugene Lee
Milton Lin
Carlos E. Luna
Kingsley Amory Matthew
Elliot D. Menschik
Tamara Marie Meskunas
Omar Ché Nicholson
John Joseph Pollock
Douglas Carl Price
Chun-Chia Jack Shih
Karl Albert Starner
Sonya Melissa Talton
Tal Weitzman
Jason Todd Wolfson
Michael J. Zelman

Bachelors of Science in Engineering Mechanics in The G.W.C. Whiting School of Engineering

Peter Anthony Giacobbe
Andrew Jay Weiner

Bachelors of Science in Materials Science and Engineering in The G.W.C. Whiting School of Engineering

Peter F. Cheng
Michael William Connelly
Andrew Scott Kalter
Judson Sloane Marte
Christopher Michael McGlone
Eli Nickerson Ross
Young-Moon Michael Shin
John Jason Sprague
JoAnna Marie Sychterz
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Bachelors of Science in Mathematical Sciences in The G.W.C. Whiting School of Engineering

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James Joseph Cassidy
Bradley Dale Cornell
Matthew David Fisher
Elisa Ann Garvey
Lars Hondorf
George Joseph Maddaloni III
Stephen W.C. Moran
Thomas Lee Plunkert, Jr.
Dziugas I. Radzius
Rachel Marie Renick
Steven Craig Renquist
Heather Lee Riordan
Nestor Alfredo Rivera
Ruth Esther Scrandis
Joshua Robert Uth
Jun Sun Yoo

Bachelors of Arts in The G.W.C. Whiting School of Engineering

Richard Alastair Bell
Signe Anne Redfield

Bachelors of Arts in Biomedical Engineering in The G.W.C. Whiting School of Engineering

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Wayne Gerald Cessna
Christopher Chi Yong Kwon
Benjamin Mark Landrum
Michael Jason Myers
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Martine F. Braham
William Alexander Braude
Philip John Mucci

Bachelors of Arts in Geography in The G.W.C. Whiting School of Engineering

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Lynn Michelle Slosberg
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Robert Edward Kellner

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Jeffrey W. Goldsmith; A.S. The Johns Hopkins University, 1991.
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Frank Keith Kochanski; A.A.E.E. Anne Arundel Community College, 1989.
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Patrick LeRoy McCubbin; A.S. The Johns Hopkins University, 1988.
George Gregory Nikol; A.S. The Johns Hopkins University, 1989.
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Stuart Randall Quade
Charles William Ridgway; A.A. Catonsville Community College, 1987.
John William Roeder; A.A.C.S. Essex Community College, 1980.
Timothy Alan Ryan
Shapur Sahba

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Sheronda Denise Smith
Ralph Redman Warren, Jr.; A.S. The Johns Hopkins University, 1991.
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Thomas Martin Meisel; A.A. Essex Community College, 1988.
Terence Joseph Nolan; A.S. State University of New York at Farmingdale, 1989.
Michael James O'Melia; A.A. Catonsville Community College, 1988.
Peter Jack Puszcz
Edward Francis Stubbs
Cliff Edward Willey; A.A. Anne Arundel Community College, 1985.

Performer's Certificates in The Peabody Conservatory of Music

Shana Elizabeth Catandella. Clarinet.
Mark F. DiClaudio. Trumpet.
Mary Elizabeth Dorsett. Trumpet.
Stephen R. Turley. Guitar.

Bachelors of Music in The Peabody Conservatory of Music

Samia Marie Bahu. Voice.
John David Baker. Percussion.
Gerald William Brann. Violoncello.
Marcella Brigliadoro. Flute and Music Education.
Heidi Louise Buxman. Piano.
Steven Alexander Carter. Clarinet.
Michael Charles Castelo. Viola.
Cleveland Arvesta Chandler Jr. Violin.
Tzu-An Annie Chang. Piano.
Shih-yu Cheng. Piano.
Gastone Coccia Vinsi. Violin.
Melissa K. Cusick. Clarinet.
Mark F. DiClaudio. Music Education.
Mary Elizabeth Dorsett. Music Education.
Christian Erik Frederickson. Viola.
Emi Fujita. Piano.
David Yi-Loong Gan. Recording Arts and Sciences.
Agnieszka M. Gawin-Wnek. Voice.
Deborah Graiko. Music Education and Saxophone.
Richard Harold Grimes. Percussion.
Julia Grace Grueninger. Violin.
Katie Slayback Hale. Music Education.
Matthew Howard Hodgson. Trombone.
Hye-Jung Hong. Piano.
Chia-Chi Hsu. Piano.
Bin Huang. Violin.
Marta Kirilloff. Voice.
Michael David Kurth. Double Bass.
Sheng-Wen Liu. Piano and Violoncello.
Jennifer Elizabeth Memoli. Violin.
Eve Suzanne Miller. Violoncello.
James Scott Norton. Bassoon.
Evan Forrest Olcott. Recording Arts and Sciences.
Jeewon Park. Piano.
Florin Parvulescu. Violin.
Tiffani Michelle Perry. Clarinet.
Jason K. Phillips. Double Bass.
Melia Anna Repko. Harp.
Angela Lynn Revis. Flute.
Kuljit Singh Rehncy. Recording Arts and Sciences.
Kiann Lee Robinson. Flute.
John Lawrence Root. Piano
Joan Laura Savage. Violin.
Christopher A. Schweiger. Trombone.
Kenneth Lee Selvidge II. Clarinet.
Yeh Shen. Violin.
Leela Srinivasan. Flute.
Mark H. Stebbins. Tuba.
Tamatha Mae Sutton. Violin.
Tamara Tanner. Violin.
Yu-Shan Tsai. Piano.
Lynn M. Tuttle. Flute.
Sorab Nariman Wadia. Piano.
Eric Bradley Warner. Trumpet and Recording Arts and Sciences.
Laura Quintonyaa Wilkes. Voice.
Carrie Lynn Work. Horn.
Chia-Ching Wu. Piano.

Bachelors of Science in The School of Nursing

Josephine Enyonam Phidelia Aggor
Karen Lee Anderson
Laura Rellihen Bean
Theresa Diane Beck
Cheryl Patricia Belle
Fay H. Blueford
Alison Marie Boleski
John C. Bradley
Bessie Tubman Brent
Virginia Frederick Buchsbaum
Christine Elene Carlsten
Leslie Anne Cavill
Jennifer Lynn Chipps
Deborah Morgan Corcoran
Joan M. Cunningham
Jacqueline Rae D'Amico
Amy Elizabeth Daniels
Yvonne Gail D'Costa
Carol Joanne De Boer
Rebecca Ann Doyle
Kimberly Sue Feldman
Michelle Lynn Felix
Janice Marie Flores
Kirsten Margaret Forsythe
Joan Tamie Fujita
Lucy Belyn Gant
Patricia Anne Grady
Laura Christine Habermeier
Jurgen Michael Hall
Sally Wickham Harlow
Michelle Marie Hittle
Kristin Helen Holt
Shireen Rusby Howard
Jodi Maurice Ianaro
Carolyn Anne Spindler Kotz
Karen-Beth Leard
Jennette Showell Logan
Susan Louise Losch
Jennifer Marie Loughran
Hayley Diana Mark
Jacqueline Mereday McDaniels
Linda Huber McPheters
Elizabeth Ashley Middleton
Kari Lynn Murray
Kathleen Ryan Nelson
Karla Kristine Ogle
Alberta Kabia Olumese
Penni Eugenia Parler
Mary Patricia Pearce
Hector Fitzpatrick Pollydore
Martha Schlenger Rabicoff
Mary Elizabeth Roberts
Diana Todd Sansing
Lesley Suzanna Seplaki
Christine Carol Shoul
Heidi Jeanette Smith
Marlene Marilyn Smith
Janet P. Stallings
Elizabeth Ann Steinberger
Cheryl Lee Stouffer
Anne Dutton Terry
Sheila Mae Theune
Dawn Shannon Torbit
Deirdre Lynn Vujevich
Audrey Joy Warden
Denise Rifkin Weinreb
Sally Katherine Wells
Barbara Ann West

Bachelors of Science in The School of Nursing Class of July 1992

Nasreen Bahreman
Deborah Jean Baker
Anne Vandegrift Barker
Ronald Lawrence Barrett
Ann Richall Billes
Paula Anne Bordner
Mary Virginia Britt
Leslie Anne Christopher
Scharmaine Aureen D'Costa
Susan Elizabeth Diaz
Florence Theresa Dunne
Jennifer Jones Falcinelli
Kimberly Sue Figore
Barbara Jane Gere
Pamela P. Hathaway
Colleen Hester
Kristina Louise Heston
Ronda Renee Hina
Mary Joanna Hogan
Elizabeth Ellen Holley
Deborah J. Hopper
Guy Terrence Hornig
Denise Anne Hunt
Peggy Elaine Jarrett
Mary Dell John
Kaitlyn Ann Jones
Kristina Marie Jones

Kayrn Flynn King
Deborah Kutenplon
Wei Liu
Hong Lu
Ellen Elizabeth Lynch
Heather Dorothy Mannuel
Alison Leigh Marcus
Cassandra Jane McCathran
Stacie Elisabeth McDonald
Heather Mildvan
Connie Mosher
Veronica Ann Oberdorf
LuAnn Marie Paglia
Barbara Ann Paramore
Anne Louise Pettigrew
Teresa A. Potter
Theresa Victoria Proctor
Rebrindo Reece Ramirez
Rebecca Schlott Redett
Karyn Jean Ritchie
Tina Carrie Rush
Anne Marie Schlater
Amanda Lynne Schlott
Christina Carol Schwien
Bonnie Jean Shelton
Kristin Lara Smeltzer
Harriet Marie Taglieri
Amanda Mae Taylor
Cynthia Lou Taylor
M. J. Timmis
Brian F. Tobias
Martha Aline Tom
Ilana Yaffa Tuchman
Donald Raymond Tucker
Heather Frances Tyson
Christine Louise Whitman
Blossom D. Wiedmeier
Mary Ann Wippel
Lisa M. Wolf
Joan Elizabeth Yaffe
Carol Ann Zyra

Bachelors of Science in The School of Nursing Class of July 1993

The following candidates for the baccalaureate degree will receive their degrees in July 1993 upon successful completion of graduation requirements.

Rose Sirri Awah
Sarah Elizabeth Ayers
Amy Elizabeth Barlow
Kimberly Anne Barnes
Karen Kittredge Bell
Christina Berglund
Maria Elaina Bondura
Julia Alice Bower
Paul David Capcara
Kathryn Ann Carnighan
Meghan Christopher
Kathleen Ann Collins
Cecilia Meehan Daub
Susan Carol Dexheimer
Megan Evans Dickinson
Marcy Lynn Dowling
Cynthia Duter
Kristin Michelle Egan
Katherine Anne Escalante
Julianne Fortuin
John Edward Frank
Susan Ann Galusha
Andrea P. Ganz
Loretta Reneé Hawley
Amanda Knapp Jackson
Bonnie Thron Jacobowitz
Mary Tortorelli Kamp
Anne Tammy Kounis
Lisa Susanne Krupinsky
Patricia Hishmeh Longard
Katherine Jean Lorand
Lana G. Ludeke
Laura Joan Martin
Catherine Ann McGovern
Kerry Coulter Metz
Kara Leigh Morgan
Caitlin Maureen Nass
Anne Marie Ozlin
Joyce Marie Pasterak
Atsuko Kitagawa Podgurski
Mary Kathleen Puskar
Lou Ann L. Rau
Sharon Kay Saquella
Margaret Ann Schwartz
Nancy Kathryn Shull
Marcie Sue Shulman
Steven Marc Sigelman
Karen Dorothy Siska
Alison Paige Smith
Sarah Loeb Szanton
Karen A. Taylor
Daniela Agata Terrizzi
Bonnie Nicole Wolfson
Paula Marie Woodward
Roberta Lynn Worrall
Marit Sund Wyse
Sarah Alexandra Zadravec
Christi Marie Zohlen

Associates of Science in The School of Continuing Studies

Kim Bennett
Bliss G. Carkhuff
Deric Benito Foster
Ambrose Edward Gmeiner II
Christopher J. Harvey
Stanley Lowell Walpert; B.S. University of Baltimore, 1969.
Willard Cornelius Wiggins

Bachelors of Liberal Arts in The School of Continuing Studies

Marie Helene Berger
Bernadette Wood Butler; A.A. Essex Community College, 1980.
Lauren Kaye Fagan
Cynthia Louise Gelb; A.A. Cuesta College, 1979.
Joseph Alan Heintjes
Linda S. Hopper
Michael Edward Marr, Jr.
Patricia Ann Tracey
James Peter Warbasse
Barbara Jean Wilson; A.A. The Johns Hopkins University, 1989.

Bachelors of Science in The School of Continuing Studies

Francine L. Allen
Thomas Charles Burns; A.A. Essex Community College, 1989.
Mary Josephine Calini; A.A. Dundalk Community College 1983.
Sherri Bradley Carlyle
James David Childress
Kevin Joseph Curran
Brian Kevin DeFrancesca
Kimberly Christine DeGonia
Afshin Doostan
Marty L. Eaton
Mary Margaret Emenheiser
Cheryl Lynn Fortman
Victoria Ann Gilliam; A.A. Essex Community College, 1981.
Ann Monica Harrell
Daniel Scott Houck
William Robert Jakubowski
William Paul Jonas
Charles C. Kanner; B.T.L. Ner Israel Rabbinical College, 1991.
Victor Edward Klaput; A.A. Essex Community College, 1981.
Anne Marie LaFond-Walker; A.A. Harford Community College, 1985.
Gregory Charles Lange
Sheila Ann Lambert; A.A. Essex Community College, 1987.
Curtis B. Lawrence; A.A. Hagerstown Junior College, 1978.
Lynda Jean Miller
Ronald Lee Miller; A.A. Harford Community College, 1986.
Damon Fredric Mintzer
Cynthia Marie Monkman; A.A. Catonsville Community College, 1986.
Cynthia Ann Nauta
Douglas Edward Oakley; A.S. Western Community College, 1985.
Christopher Gunther Olson
Peter Marek Pazura
William George Pritchard, Jr.; A.A. Essex Community College, 1988.
Linda Brown Rivelis
Daryl Joyce Robinson
Michael George Ryan, Jr.
Shmuel Samel
Susan Clare Scheuerman
Avraham Schick
John Robert Smith
Robert Bryant Spalding
Karen Rose Steggles
Lourdes Villalva-Muguerza
Linda Elizabeth Watts; A.A. Harford Community College, 1981.
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Mary Anderson Lavin Whittaker; B.S. Saint Joseph College, 1970.

Masters of Science
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Theodore J. Agres; *B.A. University of Chicago, 1971. Business.*

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Brian K. Avery; *B.S. University of Phoenix, 1987. Business.*

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Marguerite Jacqueline Azoubel; *B.A. Dickinson College, 1985. Business.*

Timothy Otto Bach; *B.S.E.E. University of Maryland, 1985. Business.*

Alison K. Bailey; *A.A.S. Mercer County Community College, 1978; B.S. Trenton State College, 1979. Real Estate.*

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Tammy Sue Bartholomew; *B.A. Frostburg State University, 1986. Applied Behavorial Science.*

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Seyed Mohammadali Bathaiian; *B.S. Strayer College, 1988. Business.*

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Kimberly Patricia Battle; *B.S. Towson State University, 1989. Applied Behavioral Science.*

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Mary Margaret Annalisa Cooper; *M.A. University of Maryland, 1982. Business.*

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Robert Michael Coyne; *B.A. Wheeling Jesuit College, 1975. Business.*

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Penny Tylette Davis; *B.A. Virginia Polytechnic Institute and State University, 1985. Applied Behavioral Science.*

Susan Williams Davis; *B.S. Salisbury State University, 1988. Interdisciplinary Science Studies.*

Robert Dea; *B.A. University of Maryland-Baltimore County, 1983. Applied Behavorial Science.*

Marlin Walter Deacon; *B.S. Towson State University, 1985. Education.*

Leslie O. Dedrickson; *B.S. University of Maryland, 1986. Business.*

Yvonne Althouse Dedrickson; *B.S. University of Maryland, 1986. Business.*

Gregory Clarke DeLong; *M.S. The Johns Hopkins University, 1975. Business.*

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Daniel Bruce Derr; B.S. Villa Julie College, 1990. Business.

Monica Michelle Desmond; *B.A. Dickinson College, 1989. Business.*

Sharon Lee Devin; *B.S. University of Maryland, 1979. Business.*

Stacey Lynn Diamond; *B.S. University of Maryland, 1987. Education.*

Joyce Marie Dick; *B.S. University of Dubuque, 1977. Education.*

Charles Reed Dicken; *B.A. University of Maryland-Baltimore County, 1985. Business.*

Michael Francis Dockman; *B.B.A. Loyola College, 1985. Business.*

Curt H. Doerr; *B.S. Old Dominion University, 1975; M.S. The Johns Hopkins University, 1991. Interdisciplinary Science Studies.*

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Magda Spector Bechar, *Diploma in Nursing, Baystate Medical Center, 1978.*

Trudy Gaillard, *B.S.N., Rutgers University College of Nursing, 1985.*

Cynthia A. Kaczmarek, *B.S.N., Georgetown University, 1988.*

Bernard Vincent Keenan, *B.S., The Johns Hopkins University School of Nursing, 1986.*

Cheryl Sue Keller, *B.S.N., The University of Maryland, 1989.*

April Lynne Lewis, *B.S.N., West Virginia University, 1986.*

Dianne Marie Sichau, *B.S.N., Radford University, 1986.*

Michelle Ann Simon, *B.S.N., The University of Maryland, 1985.*

Ling-Jiuan Wu, *National Tai Pei College of Nursing, 1973.*

Masters of Science in Nursing
in The School of Nursing

Lisette Karen Bunting, *B.S.N., The University of Maryland at Baltimore, 1983.* Role of the Ambulatory Care Nurse in the Indian Health Service.

Grace Cheng, *B.S., The Johns Hopkins University School of Nursing, 1988.* Factors Associated with Vascular Complications Following Percutaneous Transluminal Coronary Angioplasty.

Barbara A. Dailey, *B.S.N., The University of Maryland at Baltimore, 1985.* Evaluation of Parental Compliance in a Pilot Childhood Cancer Screening Program for Neuroblastoma.

Margaret Machell Farrell, *R.N., Saint Joseph's Hospital School of Nursing, 1968.* Anxiety, Depression and Fatigue Among Breast, Lung, and Prostate Cancer Patients.

Lori Ann K. Jennings, *B.S.N., The University of Maryland, 1988.* Nurse Empowerment.

Rae Ann Laseman, *B.S.N., Jacksonville University, 1987.* Values, Expectations and Group Cohesion.

Laura Carton Sessions, *A.A. Nursing, Anne Arundel Community College, 1983.* Sexual Dysfunction in Women on Chronic Hemodialysis.

Sharon Lyn Taylor-Panek, *B.S.N., Northern Illinois University, 1989.* Diabetic Foot Complications in a Long Term Population.

Mary Elizabeth Tlasek-Wolfson, *B.S.N., College of Notre Dame, 1987.* The Effectiveness of a Training Program on Mental Illness in the Elderly for Life Care Community Personnel.

Kathleen A. Williams, *B.S.N., The University of Maryland, 1983.* Impact of Exercise Training on Exercise Tolerance, Functional Status, and Quality of Life in Congestive Heart Failure Patients.

Graduate Performance Diplomas
in The Peabody Conservatory of Music

Gerald Alonzo Atkins; *B.M. Shorter College, 1988. Voice.*

Daniel James Bloor; *B.M. Southern Methodist University, 1991. Horn.*

Darci Ann Bultema; *B.S. North Dakota State University, 1988; M.M. The Johns Hopkins University, 1990. Voice.*

Diana Isabel Burson; *B.M. Rice University, 1990; M.M. The Johns Hopkins University, 1992. Voice.*

Helen Sarah Callus; *P.C. The Royal Academy of Music–London, 1991. Viola.*

Shana Catandella. *Clarinet.*

Lisa M. Cella; *A.B. Syracuse University, 1988; M.M. The Johns Hopkins University, 1991. Flute.*

Christian Colberg Becerra; *B.M., The Johns Hopkins University, 1989; M.M. The Johns Hopkins University, 1991. Violin.*

Anne Marie Giffin; *B.M. Indiana University, 1989; M.M. The Johns Hopkins University, 1990. Piano.*

Kelley Ruth Hijleh; *B.M. The Johns Hopkins University, 1991. Voice.*

Sun-Myee Hong; *B.M. Ewha Womans University, 1987; M.M. Ewha Womans University, 1989. Piano.*

Reiko Ishikawa; *B.M. Musashino Academia Musicae, 1990; M.M. The Johns Hopkins University, 1992. Piano.*

Elizabeth Anne Knauer; *B.M. College of Wooster, 1985; M.M. Baylor University, 1992. Voice.*

Pei Lu; *B.M. Xian Conservatory of Music, 1987. Violoncello.*

Cheryl Francine Morris; *B.S. Norfolk State University, 1986; M.M. West Virginia University, 1989. Bassoon.*

Jorge Antonio Pena; *B.M. Columbus College, 1991. Viola.*

Predrag Rogic; B.M. *The Johns Hopkins University, 1990. Guitar.*

Tracey Scher; *B.M.E. Acadia University, 1991. Voice.*

Lyubomir G. Staridolsky; *Dipl. State Academy of Music–Sofia, 1990. Voice.*

Dawn Kelly Stevenson; *B.M. Oberlin Conservatory, 1990. Organ.*

Rie Suzuki; *B.M. Musashino Academia Musicae, 1986; M.M. Webster University, 1990. Clarinet.*

Marek Grzegorz Szpakiewicz. *Violoncello.*

Terence Tam; *B.S. University of Toronto, 1992. Violin*

Masters of Music
in The Peabody Conservatory of Music

Nancy Crosthwait Allen; *B.S. Vanderbilt University, 1985; B.M. The Johns Hopkins University, 1992. Voice.*

Kathryn Elise Ananda-Owens; *B.A. Oberlin College, 1989; B.M. Oberlin Conservatory of Music, 1989. Piano.*

Alexander Apolin; *Dipl. Academy of Musical Arts, Prague, 1991. Conducting.*

Patricia Regina Barbano; *B.F.A. University of Connecticut, 1989. Voice.*

Jeffery Stannard Beyers; *B.M. The Johns Hopkins University, 1991. Piano.*

Marta Beth Bradley; *B.M. Indiana University, 1990. Double Bass.*

Sharon Crooks Brown; *B.S. Lebanon Valley College, 1987. Music Education.*

Jeffrey Marc Buchman; *B.M. Boston Conservatory, 1990. Voice.*

Clifton Duane Callender; *B.F.A. Tulane University, 1991. Composition.*

Lucy Shin-Wen Chang; *B.M. The Johns Hopkins University, 1992. Flute.*

Mei-Chuan Chen; *B.M. Tunghai University, 1989. Clarinet.*

Chih-Liang Cheng; *B.A. Chinese Culture University, 1989. Violin.*

Jen-Sheng Cheng; *B.A. Chinese Culture University, 1985. Piano.*

Diana Chiang; *B.M. San Francisco Conservatory of Music, 1991. Piano.*

Chen-Yin Chin; *B.F.A. Soochow University, 1991. Violin.*

Gyung Yim Choi; *B.M. Sookmyung Women's University, 1987; M.M. Sookmyung Women's University, 1989; M.M. New England Conservatory, 1991. Piano: Ensemble Arts.*

Injoo Choi; *B.M. Indiana University, 1991. Violin.*

So Yong Choi; *B.M. The Johns Hopkins University, 1992. Piano.*

Hyun-Koo Chun; *B.M. Kei-Myung University, 1974. Clarinet.*

Miae Chun; *B.M. The Johns Hopkins University, 1990. Violoncello.*

Michael Decker; *B.S. Towson State University, 1985. Music History.*

Georgine Josephine Duncan; *B.M. Baldwin-Wallace College, 1990. Voice.*

Deb Eastwood; *B.M. James Madison University, 1988. Trumpet.*

John Christian Eyer; *B.A. Luther College, 1991. Piano.*

Mary Ann Fasold; *B.S. Indiana University of Pennsylvania, 1990; B.S. Indiana University of Pennsylvania, 1991. Oboe.*

Aaron James Flood; *B.M. The Johns Hopkins University, 1988. Guitar.*

Russell B. Grazier, Jr.; *B.M. Boston Conservatory, 1990. Composition.*

Slawomir Grenda; *B.M. The Johns Hopkins University, 1992. Double Bass.*

Robert William Halbruner; *B.M. University of the Arts, 1990. Piano.*

Hou Lei; *B.M. The Johns Hopkins University, 1990. Violin.*

Huang Jen-Ling; *B.M. Chinese Culture University, 1991. Piano.*

Li-Shan Hung; *B.A. National Taiwan Normal University, 1991. Piano.*

Patricia A. Johnson; *B.M. Lawrence University, 1988; M.M. The Johns Hopkins University, 1991. Music Education.*

Igal Kesselman; *B.M. Rubin Academy of Tel-Aviv University, 1991. Piano.*

Hyun-Jung Kim; *B.M. Seoul National University, 1991. Piano.*

Jiyoung Kim; *B.M. Seoul National University, 1991. Piano.*

Yoonyoung Kim; *B.M. Ewha Womans University, 1991. Violoncello.*

Young-Ju Kim; *B.M. Yonsei University, 1990. Viola.*

Bai-Huey Kuo; *B.A. National Taiwan Normal University, 1990. Piano.*

Jeanne Kuo; *B.M. University of the Pacific, 1991. Piano.*

Li-Chiu Lan; *B.A. National Taiwan Normal University, 1986. Voice.*

Ai-fen Lee; *B.A. Tunghai University, 1989. Voice.*

Cathy J. Lee; *B.M. Rutgers University, 1991. Voice.*

Juin-Ying Lee; *B.F.A. National Institute of the Arts, 1989. Violin.*

Sangjae Lee; *B.M., Chung-Ang University, 1990. Clarinet.*

Tony Dong Li; *B.M. Central Conservatory of Music–Beijing, 1989; G.P.D. The Johns Hopkins University, 1992. Trombone.*

Hong Liang; *B.M. Texas Tech University, 1990; G.P.D. The Johns Hopkins University, 1992. Harp.*

Jiunn-Shyong Lin; *B.A. Chinese Culture University, 1989. Violin.*

Laura Kathryn McGavock; *B.M. University of Southern Mississippi, 1991. Piano.*

Laurie Ann Meeder; *B.A. Towson State University, 1983; B.S. Towson State University, 1986. Music Education.*

Hsien-Ann Meng; *B.M. The Johns Hopkins University, 1990. M.M. The Johns Hopkins University, 1991. Music History.*

Haesung Min; *Dipl. Royal Academy of Music–London, 1986. Piano.*

Phillips Windsor Peters, III; *B.S. Towson State University, 1985. Music Education.*

Ron Petrides; *B.F.A. New School for Social Research, 1991. Composition.*

Linda Sue Pfund; *B.M. University of Northern Colorado, 1991. Violin.*

Nathaniel Tull Phillips; *B.M. Northwestern University, 1991. Composition and Electronic and Computer Music.*

Vanessa Parker Rickert; *B.S. Pennsylvania State University, 1978. Trumpet.*

Natalie R. Sarrazin; *B.A. University of Hartford, 1986; B.M. University of Hartford, 1986. Music Education.*

Timothy Schwarz; *B.M. Cincinnati College–Conservatory of Music, 1991. Violin.*

David Aaron Shapiro; *B.A. Vassar College, 1987. Composition.*

David D. Shaw; *B.M. Berklee College of Music, 1991. Electronic and Computer Music.*

Bonnie J. Shermer; *B.S. Lebanon Valley College, 1987. Music Education.*

David Burton Stambler; *B.M. University of Michigan, 1987. Saxophone.*

Ivana Svarc; *B.M. Academy of Music–Zagreb University, 1990; B.M. The Johns Hopkins University, 1991. Piano.*

Karin E. Thompson; *B.M. Walla Walla College, 1991. Violoncello.*

Ursula Vargas-Baldares; *B.M. University of Costa Rica, 1990. Violoncello.*

Nicolas Henri Waldvogel; *B.A. Harvard University, 1989; M.A. Harvard University, 1989; Ph.D. Yale University, 1992. Conducting.*

Yuh-Wen Wang; *Dipl. Tainan Junior College of Home Economics, 1989. Harp.*

Daniel Eric Weiser; *B.A. Columbia University, 1988. Piano: Ensemble Arts.*

Mark Lanz Weiser; *B.M. The Johns Hopkins University, 1991. Composition.*

Sungmee Weon; *B.M. Sungshin Women's University, 1990. Piano.*

Chieh-Mei Wu; *B.F.A. Tunghai University, 1991. Voice.*

Michael Allen Wu; *B.A. Northwestern University, 1989. Organ.*

Artist Diplomas
in The Peabody Conservatory of Music

Deborah Anne Fleisher; *Dipl. Curtis Institute, 1976. Harp.*

Brian Paul Ganz. *Piano.*

Sonia Inglefield; *B.M. Bowling Green State University, 1988. Harp.*

Tatiana Johanning; *B.M. Duquesne University, 1988. Flute.*

Ivana Tasic; *B.M. Bowling Green State University, 1986. Harp.*

Yu Yuan; *B.M. University of the Arts, 1990. Violin.*

Masters of Science

in The School of Hygiene and Public Health

Richard F. G. Baumann; *B.S. Florida Institute of Technology, 1990. Biochemistry.* A Search for Helicase III in *Escherichia coli.*

Richard James Carroll; *B.S. University of Illinois, 1976; M.D., 1985.* Health Policy and Management. An International Comparison of Waiting Times for Selected Cardiovascular Procedures.

Aya Ali Madani; *B.S. East Carolina University, 1990. Immunology and Infectious Diseases.* Detection of Parvovirus B19 in Immunocompromised Patients by Polymerase Chain Reaction.

Kenneth Lamar Mueller; *B.S. Haverford College, 1990. Biochemistry.* Mutagenesis of the Third Ligand of the Second Zinc Finger and C-Terminal Region of the *Escherichia coli* UvrA Protein.

Takuya Oki; *B.A. Aoyama Gakuin University, 1988. Health Policy and Management.* Marketing Home Health Care for Cancer Patients.

Anne Marie Rompalo; *B.S. Chestnut Hill College, 1974; M.D. University of Miami, 1979. Epidemiology.* Etiology and Measurements of Genital Ulcer Disease Among HIV Infected Patients.

Jan E. Seiden; *B.S. Cornell University, 1985. Population Dynamics.* Spermatogenic Germ Cell Depletion in Response to Reduced Testicular Testosterone.

Warren Joel Strauss; *B.S. Cornell University, 1990. Biostatistics.* Marginal Methods for Longitudinal Data–An Application to Soil Lead Abatement.

Masters of Health Science

in The School of Hygiene and Public Health

Loubna Abouzahr; *B.A. The American University of Beirut, 1982; M.P.H., 1984. International Health.*

Pamela Catherine Barrett; *B.S. Ithaca College, 1989. Health Policy and Management. Health Finance and Management.*

Heather Lyn Berschling; *B.A. University of Rochester, 1987. Health Policy and Management. Behavioral Sciences and Health Education.*

Indu Bhushan; *B.Tech. Banaras Hindu University, 1981. Population Dynamics.*

Felicia Beth Bloom; *B.A. Tufts University, 1989. Health Policy and Management. Behavioral Sciences and Health Education.*

Kirsten Patricia Böse; *B.A. Stanford University, 1989. Maternal and Child Health.*

Louisa Ann Buatti; *B.A. University of Michigan, 1990. Health Policy and Management. Health Policy.*

Krista Lynn Burris; *B.S. Seattle Pacific University, 1991. International Health.*

Susan Lynn Bushkin; *B.A. University of Washington, 1990. Health Policy and Management. Behavioral Sciences and Health Education.*

Christina Maria Cahalan; *B.A. Vassar College, 1991. Health Policy and Management. Health Policy.*

Joseph Kaiser Canner; *B.S. University of Maryland, 1985. Population Dynamics.*

Stephen Vincent Chiusano; *B.S. University of Maryland, 1985. Environmental Health Sciences. Industrial Hygiene and Safety.*

Josephine Kyujean Chung; *B.A. University of Kansas, 1990. Mental Hygiene.*

Katherine Lawler Clayton; *B.A. Yale University, 1989. Maternal and Child Health.*

Kathleen Marie Conner; *B.S. University of Pennsylvania, 1989. Health Policy and Management. Health Finance and Management.*

Laurie L. Dietrich; *B.A. Boston University, 1991. Health Policy and Management. Health Finance and Management.*

Bernadette Donohue; *B.S. Cornell University, 1989. Health Policy and Management. Behavioral Sciences and Health Education.*

Beth A. Donovan; *B.A. Dartmouth College, 1991. Environmental Health Sciences. Industrial Hygiene and Safety.*

Maria Laura Esquivel; *M.A. Catholic University of Argentina, 1988. International Health.*

Weikai Christopher Fang; *B.A. University of California at Los Angeles, 1991. International Health.*

Marc Allan Feldman; *B.A. Northwestern University, 1980; M.D. The Johns Hopkins University, 1984. Health Policy and Management. Health Finance and Management.*

Patricia Anne Flowers-Coulson; *B.A. Bucknell University, 1981. Health Policy and Management. Behavioral Sciences and Health Education.*

Afua Y. Forson; *B.A. The Johns Hopkins University, 1992. Population Dynamics.*

Cheryl Kaye Fritsche; *B.A. Wellesley College, 1991. Health Policy and Management. Health Finance and Management.*

Deborah Susan Greenberg; *B.A. Princeton University, 1987. Health Policy and Management. Health Finance and Management.*

Julie Yeh-Chung Han; *B.A. The Johns Hopkins University, 1991. Health Policy and Management. Health Finance and Management.*

Eileen Louise Hanlon; *B.A. Bryn Mawr College, 1986. Health Policy and Management. Behavioral Sciences and Health Education.*

Amy Marie Hatzenbuhler; *B.A. Duke University, 1988. Environmental Health Sciences. Industrial Hygiene and Safety.*

Alan Samuel Hoffman; *B.A. University of Michigan, 1988. Health Policy and Management. Health Finance and Management.*

Margaret Hua-Mei Hsu; *B.A. Tufts University, 1988. Population Dynamics.*

Ronda Gail Hughes; *B.S.N. Boston University, 1988. Health Policy and Management. Health Policy.*

Shih-Jen Hwang; *M.P.H. Taiwan University, 1985. Epidemiology. Human Genetics/Genetic Epidemiology.*

Jennafer Lynne Kwait; *B.A. University of Pennsylvania, 1987. Health Policy and Management. Behavioral Sciences and Health Education.*

Rebecca Lebedeker Lewis; *B.A. Smith College, 1986. Immunology and Infectious Diseases.*

Andrea Lynn Lyczak; *B.S. Stockton State College, 1992. Mental Hygiene.*

Kenneth Paul Mallon; *B.S. University of Connecticut, 1987; M.S. Stanford University, 1989. Biostatistics.*

Lynn Marie Martin; *B.A. San Francisco State University, 1985. Health Policy and Management. Health Finance and Management.*

Lisa Diane McCall; *B.S. Towson State University, 1983. International Health.*

Robert Michael McKenzie; *B.S. Southeastern Massachusetts University, 1969. Environmental Health Sciences. Industrial Hygiene and Safety.*

Kunal Kishor Mehta; *B.A. George Washington University, 1991. Health Policy and Management. Health Finance and Management.*

Athol Winston Morgan; *B.A. Columbia University, 1981; M.D. The Johns Hopkins University, 1986. Epidemiology. Clinical Epidemiology*

Srijanani Nadarajah; *B.S.E. The Johns Hopkins University, 1989. Environmental Health Sciences. Industrial Hygiene and Safety.*

Mikko Kalervo Paunio; *M.D. University of Helsinki, 1989. Epidemiology. Chronic Disease Epidemiology.*

Anne C. Pfitzer; *B.A. Columbia College, 1988. Maternal and Child Health.*

Mary A. Prentakis; *B.A. Wellesley College, 1989. Health Policy and Management. Health Policy.*

Patricia A. Ringers; *B.A. Bates College, 1990. Population Dynamics.*

Janice Irene Rosenfeld; *B.A. Harvard University, 1987. Health Policy and Management. Health Policy.*

Anne Rossier; *Licence en droit, University of Lausanne, 1989. Health Policy and Management. Health Policy.*

Walter P. Saba; *B.A. Catholic University of Peru, 1980. Health Policy and Management. Behavioral Sciences and Health Education.*

Huey-Fang Sun; *B.A. National Defense Medical Center, 1985. Mental Hygiene.*

Mariana S. Szklo; *B.A. Brown University, 1991. Health Policy and Management. Behavioral Sciences and Health Education.*

Soila Sheila Tessema; *B.S. Sunderland Polytechnic, 1973. Mental Hygiene.*

Kristen Leigh Testa; *B.S. Tufts University, 1989. Health Policy and Management. Health Policy.*

Katherine A. Tiedemann; *B.A. Allegheny College, 1991. Health Policy and Management. Behavioral Sciences and Health Education.*

Yun-Hsia Tseng; *B.S. The Ohio State University, 1991. Health Policy and Management. Health Finance and Management.*

Dennis Todd Tuckness; *B.S. Southern Utah State College, 1987. Environmental Health Sciences. Industrial Hygiene and Safety.*

Andrew Arnold Weiss; *B.A. Boston University, 1988. Health Policy and Management. Health Finance and Management.*

Alyssa Beth Wigton; *B.S. University of Maryland, 1991. Maternal and Child Health.*

Beth Kaufman Zimmerman; *B.A. Oberlin College, 1988. Maternal and Child Health.*

Masters of Public Health
in The School of Hygiene and Public Health

Adenike Aderemi Adeyemi; *M.B.B.S. University of Lagos, 1974.*

Shazia Sagheer Ahmed; *M.B.,B.S. Aga Khan University, 1991.*

Akwasi Asiama Amponsah; *B.S. University of Wisconsin, 1982; M.S. North Carolina Central University, 1986; M.D. Meharry Medical College, 1989.*

Hung-Tzi An; *M.D. National Taiwan University, 1979.*

Frank William Joseph Anderson; *B.S., Christian Brothers University, 1984; M.D. University of Tennessee, 1988.*

Farhana Asad; *M.B.B.S. Dow Medical College, 1986.*

Mohammed Ashraf Uddin; *M.B.B.S. Dhaka Medical College, 1977.*

Jane Frances Barlow; *M.D. Creighton University, 1986; M.B.A. University of Alabama, 1992.*

Stephen Anthony Bezruchka; *B.S. University of Toronto, 1966; M.A. Harvard University, 1967; M.D. Stanford University, 1973.*

Patrice Gabler Blair; *B.S. West Chester University, 1982.*

David Meskes Blankhart; *M.D. State University of Utrecht, 1982.*

Mary Frances Blenkush; *B.S. University of California at Davis, 1977; M.D. University of California at San Diego, 1985.*

Ronald E. Bogard; *B.A. Stanford University, 1968; J.D. Golden Gate University, 1972.*

Paul Anthony Bolton; *M.B.B.S. University of South Wales, 1984.*

Marcy Ruth Boroff; *B.S.B.A. The American University, 1985; J.D. Boston University, 1990.*

Bruno Anselme Bouchet; *M.D. University of Bordeaux, 1984.*

Muireann Brid Brennan; *M.B.B.Ch. Royal College of Surgeons, 1985.*

Carlos Campillo-Artero; *M.D. Central University of Barcelona, 1984.*

Beryl Dianne Carew; *B.N. Dalhousie University, 1983.*

Theodore Clyde Carner; *B.B.A. Southern Methodist University, 1981; M.D. University of Arizona, 1988.*

Cristiana Leite Carvalho; *D.D.S. Pontificia Universidade Catolica de Minas Gerais, 1984.*

Douglas Joseph Chadbourne; *B.S.E. University of Florida, 1976; M.S. Chapman University, 1982; M.D. Uniformed Services University of the Health Sciences, 1986.*

Nada Sami Chaya; *B.S. American University of Beirut, 1985.*

Chiehfeng Chen; *M.D. China Medical College, 1991.*

Rutt Chuachoowong; *M.D. Mahidol University, 1991.*

Andrew James Cohen; *B.A. University of Miami, 1988; D.O. Southeastern University of the Health Sciences, 1993.*

Nathan Greenleaf Stone Congdon; *B.A. Princeton University, 1985; M. Phil. Cambridge University, 1987; M.D. The Johns Hopkins University, 1993.*

G. Bruce Copley; *B.S. Eastern Kentucky University, 1975; M.A., 1982.*

José M. Corrales; *M.D. University of Madrid, 1977.*

Marilyn Elizabeth Crumpton; *B.S. Birmingham Southern College, 1970; M.D. University of Alabama at Birmingham, 1974.*

Homer Leslie Davis; *M.D. University of State, Republic of Haiti, 1980.*

Karlotta M. Davis; *B.A. Kalamazoo College, 1977; M.D. University of Michigan, 1981.*

Lisa Kim Davis; *B.A. Yale University, 1984.*

Gloria De Sagarra; *Licenciatura in Economics, University of Madrid, 1973.*

Michael Rutledge DeBaun; *B.S. Howard University, 1982; M.S. Stanford University, 1987; M.D., 1987.*

Nancy Ellen Donegan; *B.S.N. University of Connecticut, 1973.*

Eric Lee Douglass; *B.S.E. The Johns Hopkins University, 1978.*

Barbara Ann Duffy; *B.A. Brown University, 1982; M.D., 1986.*

Yuriko Egami; *B.A. Akita University, 1987.*

Akram Ali Eltom; *M.B.B.S. University of Khartoum, 1985.*

Kwame Akyea Sam Essah; *M.B.Ch.B. University of Ghana, 1986.*

Antoine Youssef Fadoul; *M.D. State University of Haiti, 1983.*

Jason Matthew Fields; *B.A. Emory University, 1990.*

Frederic Fleurette; *M.D. University of Aix-Marseille II, 1990.*

Paulito A. Fontelo; *B.S. Silliman University, 1968; M.D. University of the Philippines, 1972.*

Cynthia Kay Forney; *B.A. Wichita State University, 1987.*

Stanley Rodes Forston, Jr.; *B.S. University of Kentucky, 1971; M.D., 1975.*

Auguste Hector Fortin, VI; *B.A. Brandeis University, 1981; M.D. Tufts University, 1985.*

Diane Frankenfield; *B.S.Pharm. University of Kansas, 1975.*

David Eugene Frankl; *B.A. Pomona College, 1980; M.D. University of California at San Diego, 1985.*

Ruth Dee Gaare; *B.A. College of Notre Dame, 1975; J.D. University of Virginia, 1980.*

Heidi Gafner Zwahlen

James Michael Garrity; *B.S. Northeast Missouri State University, 1980; D.O. North Texas University, 1984.*

Julie Perry Gavin; *B.S.N. University of Maryland, 1983.*

James Morgan Gill; *B.A. Boston College, 1983; M.D. Rutgers University, 1988.*

Carrie Joy Gittelson; *B.S.N. Florida State University, 1981; M.B.A. University of Miami, 1985.*

Marsha Danell Glover; *B.A. University of Mississippi, 1986; M.D. The Johns Hopkins University, 1990.*

Ellen Anne Goldstein; *B.A. University of Wisconsin, 1981; M.P.A. Princeton University, 1985.*

Maria Isabel Gonzalez; *M.D. University of Chile, 1985.*

Elinor Ann Graham; *M.D. University of Rochester, 1970.*

Christopher Marcellinus Grande; *B.A. City University of New York, Brooklyn College, 1981; M.D. State University of New York at Buffalo, 1984.*

Jesse Freeman Greenblatt; *B.S. University of California at Santa Cruz, 1987; M.D. University of Colorado, 1991.*

Hubert Taylor Gurley; *B.S. Duke University, 1965; M.D. University of Maryland, 1969.*

Jeffrey Randall Harris; *B.A. University of Texas, 1975; M.D. University of Texas Southwestern Medical School, 1978.*

Abigail D. Harrison; *B.A. University of Pennsylvania, 1986; M.A. The Johns Hopkins University, 1991.*

Marcia Lee Headrick; *B.S. University of Tennessee, 1979; D.V.M., 1982.*

Michael Paul Hedderman; *B.S.N. California State University at Los Angeles, 1979.*

Rosemarie Hirsch; *B.A. University of St. Thomas; 1982; M.O. University of Texas Health Science Center, 1988.*

Laura Miniea Hoemeke; *B.S. Northwestern University, 1986.*

Denise Elaine Holmes; *B.A. Mount Holyoke College, 1980; J.D. Columbia University, 1983.*

Angela Maria Hort; *M.D. University of Münster, 1990.*

Marcela Veronica Horvitz-Lennon; *M.D. Catholic University of Chile, 1987.*

Denise Howard; *B.A. University of Mississippi, 1988. M.D. The Johns Hopkins University, 1993.*

John Wen-Chain Hsu; *M.D. Kaoshiung Medical College, 1986; Ph.D., 1991.*

Adnan Ali Hyder; *M.B.B.S. Aga Khan University, 1990.*

Sk. Md. Aminul Islam; *M.D. Rostov State Medical Institute, 1983.*

Graciela Jaschek; *B.S. University of Massachusetts, 1987.*

George Mannil John; *M.B.B.S. Mangalore University, 1991.*

Calvin Barksdale Johnson; *B.S. Morehouse College, 1988; M.D. The Johns Hopkins University, 1993.*

Portia Dian Jones; *B.A. George Fox College, 1977; M.D. University of Minnesota, 1988.*

(Kerry) Shiao-Ying Jung; *B.S. Taipei Medical College, 1979.*

Stephanie Ying-Sui Su Kao; *M.D. China Medical College, 1991.*

Marilyn Jean Keefe; *B.A. Barnard College, 1980; M.A. University of Chicago, 1986.*

Thomas Allen Kenyon; *B.A. Indiana University, 1977; M.D. University of Missouri, 1981.*

Courtney Michael Kerwin; *B.S. Illinois Institute of Technology, 1967; Ph.D. Michigan State University, 1972.*

Salma Khuwaja; *M.B.B.S. Dow Medical College, 1987.*

Young Chi Kim; *M.D. Seoul National University, 1970.*

Jan Barbara King; *B.S.E. Tufts University, 1984; M.D. University of California at Los Angeles, 1988.*

Kathryn Ann Kinnik; *B.S.N. Georgetown University, 1987.*

Susan Delaney Kitun; *B.S.N. State University College at Plattsburgh, New York, 1969.*

Dave Glen Klock; *B.S. Oregon State University, 1985; M.D. Vanderbilt University, 1989.*

Thomas Edward Donald Knuth; *B.S.B.I. Bucknell University, 1980; M.D. Uniformed Services University of the Health Sciences, 1984.*

Amy C.Y. Kok; *B.S. Chinese University of Hong Kong, 1987.*

Allison Greer Kramer; *B.S. Boston University, 1988; M.S.,1989.*

Matthew Brian Krebs; *B.A. University of Virginia, 1985; M.D. Washington University, 1989.*

Steven Scott Krotzer; *B.S. University of Michigan, 1973; M.D. Harvard University, 1977.*

Daryl Michael LaRusso; *B.S. Wheaton College, 1979 M.D. Loyola University of Chicago, 1985.*

Ralph Eli LeBlanc; *M.D. Michigan State University, 1979.*

Nan Frances Lewicky; *B.A. University of Chicago, 1987; M.A., 1988.*

D'Anna Latesha Little; *B.S. University of California at Berkeley, 1987; M.D. Vanderbilt University, 1991.*

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David Bryce Van Oppen, *B.A. Pomona College, 1988.*

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Giovanni Zanalda, *Laurea Universita di Torino, 1987.*

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Masters of Arts
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Vince Daniel Calhoun; *B.S., The University of Kansas, 1991. Biomedical Engineering.*

David Joseph Giarracco; *B.S., The Johns Hopkins University, 1989. Biomedical Engineering.*

Caitlin Elizabeth Hughes; *B.S., Tufts University, 1989. Medical and Biological Illustration.* The Structure Behind Hovering in Hummingbird Flight: A Comparative Study of the Wrist Anatomy in Hummingbird *(Coeligena coeligena)* and Swift *(Collocalia esculenta).*

Katherine Marie Jones; *B.G.S./B.F.A., University of Michigan, 1991. Medical and Biological Illustration.* A Study of the Canine Shoulder Joint: 3D Reconstruction and Cross Sectional Anatomy.

Deborah Elaine Schade Mahoney; *B.F.A., Long Island University (Southampton), 1985. Medical and Biological Illustration.* Micro-anatomy of the Facial Circulation

Lisa Makarchuk; *B.P.S., Empire State College of the State University of New York, 1986. Medical and Biological Illustration.* A Study of the Location of the Swimbladder of Koi, *cyprinns carpio* in Relationship to its Skeleton and External Landmarks.

Craig Gordon Smucker; *B.S., University of Delaware, 1989. Biochemistry, Cellular and Molecular Biology Training Program—Molecular Biology and Genetics.* Studies on the Role of the Blk Tyrosine Kinase in B-lymphocyte Signal Transduction.

Katharine Speiden Sutliff; *B.S., Old Dominion University, 1984; B.A., The George Washington University, 1988. Medical and Biological Illustration.* Septation of the Trachea and Esophagus in Human Embryos: Crucial Role of the Tracheoesophageal Sulcus.

Master of Chemical Engineering
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Mary Josephine Bieberich; *B.A. University of North Carolina, 1967. Geography and Environmental Engineering.* Shipboard Engineering and Environmental Aspects of Implementing Annex V of MARPOL 73/78-Regulations for the Prevention of Pollution by Garbage from Ships.

Michael Bernard Bilzor; *B.S. United States Naval Academy, 1992. Computer Science.*

Teresa A. Bisaillon; *B.S. Rochester Institute of Technology, 1990. Computer Science.*

Terrie Lynen Blair. *Computer Science.*

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Debra Jane Bostron; *B.S. University of Delaware, 1985. Computer Science.*

James Price Brandon; *B.S.M.E. Virginia Polytechnic Institute and State University, 1987. Computer Science.*

Lawrence Emerson Brandt; *B.A. San Diego State University, 1974. Computer Science.*

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Dean D. Brown; *B.S. Point Park College, 1985. Electrical Engineering.*

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Mark William Brown; *A.E. Wentworth Institute of Technology, 1978; B.S. Worcester Polytechnic Institute, 1982. Electrical Engineering.*

Richard William Brown. *Computer Science.*

Stewart William Brown; *B.S. George Washington University, 1985. Technical Management.*

Daniel Joseph Brudnicki; *B.S. Pennsylvania State University 1986. Computer Science.*

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Gregory Lawrence Cameron; *B.S. Utah State University, 1988. Computer Science.*

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James Spencer Carney; *B.S. State University of New York at Buffalo, 1987. Computer Science.*

Anthony Michael Celmer; *B.A. Towson State University, 1988. Computer Science.*

Robert William Chalmers; *B.S.E.E. Florida State University, 1986. Applied Physics.*

Boon Hwee Chan; *M.S. The Johns Hopkins University, 1991. Electrical Engineering.*

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Ying-Chuan Chang; *B.S. Tunghai University, 1977; M.S. University of Maryland-Baltimore County, 1983. Computer Science.*

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James Hawkins Clark; *B.A. Gallaudet University, 1987. Computer Science.*

Kenneth Allen Clark; *B.S. University of Virginia 1990. Electrical Engineering.*

Kerry William Clark; *B.S. State University of New York at Oneonta, 1980. Applied Physics.*

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Andrea Carolyn Colegrove; *B.S. University of Washington, 1986. Computer Science.*

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Kimberly Sue Cummings; *B.S. Purdue University, 1988. Computer Science.*

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Neal Darrow Durant; *B.A. Colgate University, 1987. Geography and Environmental Engineering.* Screening for Natural Subsurface Biotransformation of Coal-Tar Constituents at a Former Manufactured Gas Plant.

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Christofer Telemachus Christoforou; *B.S. Boston University, 1990. Biomedical Engineering.* Cartoid Sinus Reflex Control of Systemic Vascular Capacitance Using Cardiopulmonary Bypass in the Rat.

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Mark Graham Baxter. *Psychology.* Age-related declines In memory: Effects of several putative cognitive enhancers.

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Omar Lee Thameen; *B.A. The Johns Hopkins University, 1990. Physics and Astronomy.* Magnetic Properties of Granular Iron Silica Fabricated using a High Energy Ball Mill.

Lenore Graham Thomas. *History.*

Hsiu-chen Flora Tsui. *Economics.*

Till Benjamin Van Rahden. *History.*

Marta Valentin Vicente. *History.*

Ronald Edward Walters. *Political Science.* Looking Out for Number Two: The Emergence of the Vice-President and Its Role and Influence in Presidential Politics.

Dasong Wang; *B.A. University of Southern Maine, 1991. Chemistry.*

Dorothy J. Wang; *B.A. Duke University, 1985; M.P.A. Princeton University, 1987. Writing Seminars.* From White Threads.

Ning Wei; *B.S.Peking University, 1983; M.S. Wright State University, 1988. Chemistry.*

John Wesley Wells. *Near Eastern Studies.*

Nicholas Gomez Wey. *Hispanic and Italian Studies.*

Christine Claire Whitmore; *B.S. Birmingham-Southern College, 1981. Sociology.*

James E. Whorton, Jr.; *B.A. University of Southern Mississippi, 1989. Writing Seminars.* Six Stories.

Bernice C. Wuethrich; *B.A. San Francisco State University, 1992. Writing Seminars.* Reading Their Genes: Molecular genetics and the commitment to save endangered species.

Shinji Yamashige; *B.A. Hitotsubashi University, 1985; M.A., 1987. Economics.* Large Games and Large Economies with Incomplete Information.

Takayuki Yamauchi. *Mathematics.*

Kefeng Ying; *B.S. Zhengshan University, 1984; M.S. Institute of Mathematics, Academia Sinica, 1987. Mathematics.* On the convergence of the Adelic Zeta Functions Associated to Irreducible Regular Prehomogeneous Vector Spaces.

Ilyse Anne Zable. *Economics.*

Michael Richard Zdanis. *Economics.*

Robert George Zuber; *B.S. Carnegie-Mellon University, 1990. Physics and Astronomy.*

Doctors of Education in The School of Continuing Studies

Darlene Elizabeth Hetmanski Fewster; *B.A. University of Maryland, 1978; M.A. Loyola College, 1984.* The Effects of Self-Instructional Training With and Without Written Cues on Task Performance of Children Experiencing Difficulty in Mathematics.

Nancy R. Levy; *B.A. University of Chicago, 1958; M.Ed. Towson State University, 1978.* The Effects of a Cognitive Behavior Modification Self-Regulation Strategy on the Analytical Writing of Middle School Students in Heterogeneous General Education Classes.

Rosalie Isaacson Nabors; *B.A. American University, 1965;M.S. Loyola College, 1975.* Teaching Spatial Concepts to Young Students with Language Disabilities.

Kuo-Ping Yang; *M.Ed. The Johns Hopkins University, 1989; C.A.S., 1990.* The Effectiveness of Learning Morse Code by Using a Multimedia Learning System (MLS) for People with Severe Physical Impairment.

Doctors of Musical Arts in The Peabody Conservatory of Music

Charlotte Valeria Anderson; *B.A. Youngstown State University, 1985; M.M. The Johns Hopkins University, 1987. Voice.*

John Morgan Bowen, Jr.; *B.A. Towson State University, 1985; M.M., The Johns Hopkins University, 1988. Composition.*

Aviva Espiedra; *Dipl. Rubin Academy of Tel-Aviv University, 1975. Piano.* A Critical Study of Four Piano Sonatas by Israeli Composers, 1950-1979.

Martin David Jones; *B.M. California State University–Northridge, 1988; M.M. The Johns Hopkins University, 1990. Piano.*

Kwang-Wu Kim; *B.A. Yale University, 1980; M.M. Peabody Conservatory of Music, 1982; A.D. The Johns Hopkins University, 1988. Piano.*

Adele J. Lynch; *B.M. University of Texas at Austin, 1985; M.M. University of Texas at Austin, 1987. Organ.*

Paul Alan Mori; *B.A. Westmont College, 1977; M.M. The Johns Hopkins University, 1984. Conducting.* A Comparative Analysis of Vivaldi's Bassoon Concerto Variants: A Schenkerian Approach.

Michael Patrick Twomey; *B.M. University of Montana, 1985; M.M. Northwestern University, 1987. Composition.*

Vivian Whi-Chen Ueng; *B.M. Juilliard School of Music, 1985; M.M. Juilliard School of Music, 1986. Piano.*

John Denton Vaughan; *B.A. Oberlin College, 1987; M.M. University of the Arts, 1989. Piano.*

Randal Alfred Woodfield; *B.M.E. Ouachita Baptist University, 1973; M.M.E. Ouachita Baptist University, 1975. Voice.*

Doctors of Science

in The School of Hygiene and Public Health

Karabi Bhattacharyya; *B.A. University of Chicago, 1986; M.H.S. The Johns Hopkins University, 1989. International Health.* Understanding Acute Respiratory Infections: Culture and Method.

Anne-Emanuelle Birn; *B.A. Harvard University, 1986; M.A. University of Canterbury, 1988. Health Policy and Management.* Local Health and Foreign Wealth: The Rockefeller Foundation's Public Health Programs in Mexico, 1924-51.

David Preston Bodycombe; *B.A. The Johns Hopkins University, 1971; M.S. Georgetown University, 1977. Health Policy and Management.* Association between the Personal Health Risks, Health Risk Behaviors, and Risk Awareness of Registered Nurses and the Performance of their Patient Counseling Practices.

Sandra Duff Cassard; *B.A. St. Mary's College of Maryland, 1985. Health Policy and Management.* The Impact of a Hospital Nursing Practice Model on Patient Outcomes.

Margaret O'Brien Caughy; *B.S. Texas A&M University, 1986; M.Ed. University of Maryland, 1989.* Maternal and Child Health. The Influence of Early Health Morbidity and Environmental Risk Factors on the Cognitive Functioning of Young School Age Children.

Karan Alene Cole; *B.S. The Johns Hopkins University, 1983. Behavioral Sciences and Health Education.* The Personal and Social Contexts of Recovery During the First Year Following Myocardial Infarction in Male Patients.

Donald Wayne Corneil; *B.A. Carleton University, 1977; M.S.W., 1987. Health Policy and Management.* Prevalence of Post Traumatic Stress Disorders in a Metropolitan Fire Department.

Chester L. Davis, II; *B.A. Lake Forest College, 1966; M.P.H. Yale University, 1971. Health Policy and Management.* Deterministic and Stochastic Models of Patient Flow Through Medical Facilities of the Department of Veterans Affairs.

Robert Ian Griffiths; *B.A. University of Delaware, 1983; M.S. Virginia Polytechnic Institute, 1988. Health Policy and Management.* The Comparative Performance of For-Profit and Not-for-Profit Independent Renal Dialysis Facilities.

Mark Drew Crosland Guimarães; *M.D. Federal University of Minas Gerais, 1978; M.P.H. Hebrew University, 1982. Epidemiology.* Heterosexual Transmission of the Human Immunodeficiency Virus in Brazil: A Comparison of Sexual Practices.

Maria M. Hall; *B.Ed. University of Saskatchewan, 1982; M.P.H. University of Minnesota, 1984. Mental Hygiene.* Epidemiological Examination of the Relationship Between Psychotherapeutic Medicine Use and Disability in the Elderly.

Kim Allen Heithoff; *B.S. Viterbo College, 1977; M.Ed. University of Missouri, 1980; M.P.H. The Johns Hopkins University, 1988. Mental Hygiene.* Depression in Late-Life: Analysis of Data from the NIMH Epidemiologic Catchment Area (ECA) Program.

Joanne Katz; *B.S. University of Cape Town, 1978; M.S. Princeton University, 1981. International Health.* Village and Household Clustering of Morbidity and Mortality in Developing Countries.

Mary Ursula Lamb; *B.S. State University of New York at Stony Brook, 1973; M.P.H. University of California at Los Angeles, 1978. International Health.* Determinants of Acute Lower Respiratory Infections in Children in Zimbabwe.

María Elena León-Roux; *B.S. Universidad Simon Bolivar, 1981; M.S. Colorado State University, 1985; M.P.H. Emory University, 1988. International Health.* Assessment of Cell Mediated Immunity Two Years After High Titer Measles Immunization in Peruvian Children.

Ernest Edmund Massiah; *B.A. University of Waterloo, 1983; M.S. London School of Economics, 1985. Health Policy and Management.* Multi-Level Analysis of Contraceptive Use in Trishal, Bangladesh: The Role of Communication Networks.

Barbara J. McKinney; *B.A. Amherst College, 1984. Population Dynamics.* The Impact of Rural-Urban Migration on Migrant Fertility in Senegal.

Ann Meadow; *B.A. State University of New York at Binghamton, 1972. Health Policy and Management.* The Effectiveness of OSHA Workplace Safety Enforcement in Manufacturing, 1984-88.

Nazrat Mohamed Mirza; *M.B.Ch.B. University of Nairobi, 1980; M.Med., 1986. International Health.* Epidemiology of Diarrhea in Kenyan Children.

Patricia Hart Neuman; *B.A. Wesleyan University, 1981; M.H.S. The Johns Hopkins University, 1987. Health Policy and Management.* The Impact of Post-Hospital Home Health Services on Patient Outcomes.

Gary Pazzaglia; *B.S. University of Houston, 1976; M.S. University of Texas, 1979. Immunology and Infectious Diseases.* Studies of Virulence and Mechanisms of Pathogenesis in *Aeromonas* Species.

Melissa Jeanne Perry; *B.A. University of Vermont, 1988; M.H.S. The Johns Hopkins University, 1990. Mental Hygiene.* Psychosocial Factors Associated with the Initiation of Cocaine Use.

Ellen Gail Piwoz; *B.A. Duke University, 1978; M.H.S. The Johns Hopkins University, 1983. International Health.* Feeding Practices and Growth Among Low-Income Peruvian Infants: Program Issues and Analytic Concerns.

Stacey Beth Plichta; *B.A. State University of New York at Buffalo, 1986. Health Policy and Management.* A Subjective Expected Utility Model of Contraceptive Decision-Making by Adolescent Women.

Fernando Augusto Proietti; *M.D. Federal University of Minas Gerais, 1976; Sc.M., 1985. Epidemiology.* Seroprevalence correlates of HTLV-II, HTLV-II/HIV-I Serostatus and Clinical Manifestations of HTLV-II Infection among Intravenous Drug Users in Baltimore, Maryland.

Judith Ann Ricci; *B.A. University of Pennsylvania, 1978; M.S., 1982. International Health.* Maternal Time Allocation and the Dietary Intake, Diarrheal Morbidity, and Nutritional Status of Young Children in a Peri-Urban Egyptian Village.

Francisco José Rosales; *B.S. University of California at Riverside, 1978; M.D. University Francisco Marroquin, 1984. International Health.* Efficacy of a Single Dose of 200,000 I.U. of Vitamin A in the Treatment of Non-severe Measles Cases.

Judith Ann Sangl; *B.S. University of Pittsburg, 1974; M.P.H., 1978; M.P.I.A., 1978. Health Policy and Management.* Demand for Formal and Informal Home-Care among the Functionally Impaired Elderly.

Dirk G. Schroeder; *B.A. Stanford University, 1984. M.P.H. The Johns Hopkins University, 1988. International Health.* Dietary Management of Acute Diarrhea in a Rural Guatemalan Community.

Sherri Joy Tepper; *B.A. McGill University, 1987; M.A., 1990. Mental Hygiene.* The Role of Psychopathology in the Onset and Course of Disability: A Population-Based Study.

Marilyn Ingrid Wilkinson; *B.A. University of Michigan, 1981. Population Dynamics.* The Relationship of Service Provision to Contraceptive Use in Zimbabwe.

Zabel Zakarian; *B.A. Whittier College, 1972; B.F.A. California Institute of the Arts, 1973; M.P.H. University of Illinois, 1976. Health Policy and Management.* Pollution, Disease, and Protest: The Transformation of Environmental Policies in Postwar Japan.

Doctors of Public Health

in The School of Hygiene and Public Health

Yehia Awad Abed; *M.B.B.Ch. Assiut University, 1972; M.P.H. Hebrew University, 1979. Epidemiology.* Risk Factors Associated with Prevalence of Anemia among Arab Children in Gaza Strip.

Mary Edmonds Cogswell; *B.S. University of Vermont, 1983; M.P.H. The Johns Hopkins University, 1987. International Health.* The Effect of Variations in Maternal Fat Distribution During Pregnancy on Birth Weight in Guatemala.

Marisol Concha; *M.D. University of Chile, 1979. Epidemiology.* The Natural History of Senile Cataract Treatment in the Chilean Health System.

Regan Lang Crump; *B.S.N. Medical College of Virginia, 1978; M.S.N. University of North Carolina, 1982. Health Policy and Management.* The Association Between Self-Esteem and Smoking in African-American Elementary School Children.

Fariyal Fatma Fikree; *M.D. Shiraz University, 1980; M.P.H. The Johns Hopkins University, 1988. Population Dynamics.* Determinants of Perinatal and Maternal Mortality in Karachi, Pakistan.

Charlotte A. Gaydos; *B.S. West Virginia University, 1964; M.S., 1966; M.P.H. The Johns Hopkins University, 1989. Immunology and Infectious Diseases.* Biology and Disease Potential of *Chlamydia pneumoniae.*

Hervé Louis Guillain; M.D. *University of Lausanne, 1982; M.P.H. The Johns Hopkins University, 1990. Health Policy and Management.* Physician Payment and Severity of Illness.

Donna Mills Howard; *B.S.N. University of Michigan, 1969; M.P.H. University of Minnesota, 1973. Behavioral Sciences and Health Education.* Negative Affect, Perceived Health Status, Symptom Reporting, and Perceived Susceptibility Among Adolescents.

Jong-Chan Lee; *D.D.S. Seoul National University, 1983; M.P.H., 1988. Health Policy and Management.* The Politics of National Health Insurance in South Korea, 1961-1989.

Guohua Li; *M.D. Beijing Medical University, 1984; M.P.H. Tongji Medical University, 1987. Health Policy and Management.* Pilot Related Risk Factors in Commuter Aircraft and Air Taxi Crashes: A Case-Control Study.

José Mariá Paganini; *M.D. National University of La Plata, 1961; M.P.H. The Johns Hopkins University, 1967. Health Policy and Management.* The Relationship between Hospital Structure and Patient Outcome.

Geri Lynn Peak; *B.A. Mount Holyoke College, 1979; M.P.H. University of California at Los Angeles, 1986. Population Dynamics.* An Exploration of African American Adolescents' Perceptions of the Transition to Adulthood.

David Henry Peters; *B.S. University of Manitoba, 1986; M.D., 1986; M.P.H. The Johns Hopkins University, 1989. International Health.* Infant Mortality and Low Birthweight in Mahaweli H, Sri Lanka.

Brigitte Santos-Eggimann; *M.D. University of Geneva, 1982. M.P.H. The Johns Hopkins University, 1987. Health Policy and Management.* Geographic and Temporal Determinants of Neonatal Intensive Care Units Utilization in Vaud and Valais (Switzerland).

Doctors of Philosophy

in The School of Hygiene and Public Health

Philip G. Alcabes; *B.S. Union College, 1976; M.A. University of California at Berkely, 1978; M.P.H. Columbia University, 1981, Epidemiology.* Estimation of the Time from Antibody-Seroconversion to AIDS Diagnosis in Intravenous Drug Users Infected with Human Immunodeficiency Virus.

Theresa Lynne Beaty; *B.S. Aquinas College, 1985. Biochemistry.* Neoplasia and Differentiation in a Syrian Hamster Myogenic System.

Carolyn Elisabeth Behrendt; *B.A. Case Western Reserve University, 1987. Epidemiology.* HIV-1 Seroprevalence, Response to Voluntary HIV Testing, and HIV-Related Therapeutic Needs among Maryland Prison Inmates.

Brendan James Canning; *B.S. University of Maryland, 1986. Environmental Health Sciences.* Relaxant Innervation of Guinea Pig Trachealis.

Vincent J. Carey, Jr.; *B.A. Harvard University, 1982. Biostatistics.* Regression Analysis for Large Binary Clusters.

Hong-Shu Chen; *M.D. Chinese Medical College, 1985. Immunology and Infectious Diseases.* Mutation Analysis of the Woodchuck Hepatitis Virus Genome as an Animal Model for the Study of Hepatitis B Virus Infection of Humans.

Edward Jerome Crane, III; *B.S. St. Cloud State University, 1987. Biochemistry.* Mechanism and Catalysis of Aldol-Type Reactions Involving Thiamin and Acetaldehyde Formation by *S. carlbergensis* Pyruvate Decarboxylase.

Rola Abdulla Dashti; *B.S. California State University at Chico, 1984; M.A. California State University at Sacramento, 1985. Population Dynamics.* Dynamics of Teacher Supply/ A Stochastic Approach Case of Kuwait.

Richard Ott Davis; *B.A. University of Michigan, 1982; M.Ed. Harvard University, 1986. Health Policy and Management.* Psychosocial Correlates of HIV Risk Reduction Behaviors in Intravenous Drug Users.

James Gerard Donahue; *B.S. University of Minnesota, 1978; D.V.M., 1982; M.P.H. Harvard University, 1984. Epidemiology.* Hepatitis C Infection in Cardiac Surgery Patients: Incidence, Prevalence, and Natural History.

Kathryn Zuckerman Guyton; *B.S. The Johns Hopkins University, 1987.Environmental Health Sciences.* The Role of Reactive Intermediates in Tumor Promotion by the Food Additive Butylated Hydroxytoluene.

James A. Higgins; *B.A. State University of New York at Binghamton, 1983; M.S. Louisiana State University, 1987. Immunology and Infections Diseases.* Genetics and Biochemistry of *Brugia Malayi* Susceptible and Refractory Strains of *Aedes Aegypti.*

Ying Huang; *B.S. Fudan University, 1982; M.A. The Johns Hopkins University, 1987. Biostatistics.* Competing Risks Models with Applications in Epidemiology.

Robert Jordan; *B.S. Pennsylvania State University, 1985. Biochemistry.* A Mechanistic Study of the *Escherichia coli* 70 Kilodalton Heat Shock Protein, DnaK.

Theodore Dean Kessis; *B.S. Ohio State University, 1983. Immunology and Infectious Diseases.* The Role of p53 in the Development of Cervical Neoplasia.

Denise Amy Riedel Lewis; *B.S. George Washington University, 1982; M.P.H. Yale University, 1986. Epidemiology.* Black/White Differences in Multiple Myeloma: The Role of Chronic Antigenic Stimulation.

Jiangang Liao; *M.Med. Chinese Academy of Preventive Medicine, 1986. Biostatistics.* An Empirical Bayes Approach to Smoothing in Deconvolution with Application to AIDS.

Tami Leigh Mark; *B.A. Amherst College, 1986; M.B.A. Loyola College, 1992. Health Policy and Management.* Psychiatric Hospital Ownership and Performance: A Comparison of Costs, Quality, and Access in Private Nonprofit and For-Profit Psychiatric Hospitals.

Laura Janet McIntosh; *B.S. Colorado State University, 1984. Environmental Health Sciences.* An Examination of the Differential Susceptibility of Neurons to Trimethyltin Toxicity.

John Louis Musachio; *B.S. Washington College, 1987. Environmental Health Sciences.* Novel Radioiodinated Neuroreceptor Ligands.

Tien Thuy Nguyen; *B.S. California State University at Los Angeles, 1986. Biochemistry.* Mutational Studies of the *E. coli* RecA Protein.

Anne Elizabeth Patterson; *B.S. University of South Carolina, 1983; M.S.P.H., 1986. Environmental Health Sciences.* Endosulfan Biotransformation by *Pseudomonas Aeruginosa.*

Thomas Vaclav Perneger; *M.D. University of Geneva, 1983; M.P.H. The Johns Hopkins University, 1989; M.H.S., 1991. Epidemiology.* Case-Control Study of Risk Factors for End-Stage Renal Disease.

Catherine Schairer; *B.A. Oberlin College, 1971; M.S. University of California at Los Angeles, 1981. Epidemiology.* Risk of Breast Cancer after Menopausal Estrogen and Estrogen-Progestin Replacement Therapy.

Amy Joy Hamilton Schultheis; *B.S.N. University of Pennsylvania, 1986; M.S.N., 1987. Environmental Health Sciences.* The Effect of Ozone on Inflammatory Cell Infiltration and Airway Hyperresponsiveness in the Guinea Pig Lung.

Anita Louise Slusarcick; *B.A. Trinity College, 1973; M.A. The Catholic University of America, 1975. Behavioral Sciences and Health Education.* Social Competence, Social Support and Blood Pressure Reactivity.

Morna Oruch Smith; *B.A. Pomona College, 1981. Population Dynamics.* Desired Family Size and Desired Child Education among Recently Married Women in Egypt.

James T. Stivers; *B.S. University of Washington, 1987. Biochemistry.* Mechanism and Catalysis of C(alpha)-Proton Transfer from 2-(1-Hydroxyethyl)thiamin and Acetoin Formation by *S. carlbergensis* Pyruvate Decarboxylase.

Mei Hua Swee; *B.S. University of Akron, 1983; M.S., 1984.Biochemistry.* Tropoelastin, Fibronectin, and Procollagen Gene Expression in Syrian Hamster during Development, Aging, and Wound Repair.

Tina Lynn Trapane; *B.S. Birmingham Southern College, 1977. Biochemistry.* Duplex and Triplex Formation by Oligonucleoside Phosphodiesters and Methylphosphonates.

Asad Umar; *D.V.M. University of Agriculture, 1984. Biochemistry.* Somatic Hypermutation of Immunoglobulin Transgenes: Use of Reporter Genes to Detect Mutation.

Pichart Uparanukraw; *M.D. Chiang Mai University, 1980. Immunology and Infectious Diseases.* Cloning a Novel Gene from *Plasmodium berghei* and Immunobiological Studies on Malarial Heat Shock-Related Proteins.

Fang Wang; *B.S. Beijing Medical University, 1982; M.Med., 1986; M.P.H. The Johns Hopkins University, 1988. Epidemiology.* Eye Disease Screening in a Primary Care Setting.

Jinting Wang; *B.S. Shandong Agricultural University, 1983; M.S. Beijing Agricultural University, 1986. Biochemistry.* A Mutational Study of the *Escherichia coli* UvrA Protein.

Dora Lynn Warren; *B.S. Wheaton College, 1976; M.S. University of Illinois, 1981. Epidemiology.* Human Immunodeficiency Virus Infection in Intravenous Drug Users and Their Sexual Partners: Concordant Infection and Voluntary Partner Notification.

Qingyi Wei; *B.Med. Nanjing Medical College, 1983; Sc.M. Chinese Academy of Preventive Medicine, 1986. Epidemiology.* DNA Repair and Risk of Basal Cell Carcinoma—A Molecular Epidemiology Study.

Jianing Yang; *M.D. Nanjing Medical College, 1982. Environmental Health Sciences.* The Physiological Functions and Biochemical Pathways of the Airway Epithelium.

Sonya Danielle Zabludoff; *B.S. University of Rochester, 1985. Population Dynamics.* Cell-Cell Interactions in the Testis: Studies of Cyclic Protein-2/Cathepsin L, A Sertoli Cell Glycoprotein.

Jun Zou; *B.S. Western China Medical University, 1979; M.S. Shanghai Medical University, 1983; M.S. Fordham University, 1986. Biochemistry.* Asparagine-linked Glycosylation in *Schizosaccharomyces pombe:* Isolation and Expression of the Gene Encoding N-Acetylglucosamine 1-phosphate Transferase.

Doctor of Philosophy

in The Paul H. Nitze School of Advanced International Studies

Cecilia A. P. Albin, *B.A. Sweet Briar College, 1984; M.S.F.S. Georgetown University, 1986. Resolving Conflict Over Indivisibles Through Negotiation: The Case of Jerusalem.*

Ronald D. Asmus, *B.A. University of Wisconsin, 1979; M.A. The Johns Hopkins University SAIS, 1981. Bonn and East Berlin: The Politics of German Unity and Partition.*

Antonella Bassani, *Laurea Universita di Venezia, 1985; M.A. The Johns Hopkins University SAIS, 1987. The Political Economy of Trade Liberalization: A Comparative Study of Morocco and Tunisia.*

Joerge A. Boche, *M.A. Universitat Munchen, 1988; M.A. The Johns Hopkins University SAIS, 1990. The Political Economy of Franco-German Relations.*

Susan Kucinski Brems, *B.S. Georgetown University, 1970; M.A. Middlebury College, 1971; M.A. The Johns Hopkins University, SAIS, 1986. Caretakers of Blood: Fertility Transition in Rural Northeast Brazil.*

Mong Joon Chung, *B.A. Seoul National University, 1975; M.S. Massachusetts Institute of Technology, 1980. Business Government Relations of Japan: Automobile Industry Case Study.*

Fadzai Gwaradzimba, *B.A. University of Zimbabwe, 1976; M.A. University of Oregon, 1979. The Southern African Development Coordination Conference (SADCC): Search for Autonomy and Regional Security in Southern Africa.*

Naima A. Hasci, *B.A. Mount Holyoke College, 1978; M.S.F.S. Georgetown University, 1980. Somali Refugee Policy and Development: An Analysis of Durable Solutions.*

Hyung Kook Kim, *B.S. Korea University, 1982; B.A. Lewis and Clark College, 1985; M.A. The Johns Hopkins University SAIS. Internalization of International Conflict: The Alliance-Making Process and the Division of Korea, 1945-1948.*

Andrew Carrigan Kuchins, *B.A. Amherst College, 1981; M.A. The Johns Hopkins University SAIS, 1985. Cognitive Change and Political Entrepreneurship: The Evolution of Soviet Policy Toward China from 1976-1989.*

Anne Wilson Mitchell, *B.A. New College, 1975; M.A. Irish School of Ecumenics, 1978; M.A. The Johns Hopkins University SAIS, 1986. The Danger of Dreams: Protective Imperialism versus WELTPOLITIK.*

James Franklin Robinson, *B.A. Reed College, 1972; M.A. McGill University, 1976; Ph.D. McGill University, 1983; M.A. The Johns Hopkins University SAIS, 1986. Reason of State: The Origins of NSC 68.*

Roberto Russell, *B.A. Law University of Buenos Aires, 1972; B.A. University of El Salvador, 1976; M.A. Latin American Faculty of Social Sciences, 1978. From Videla to Alfonsin: Domestic Sources of Argentina's Foreign Policy.*

Puay Tang, *B.A. University of Toronto, 1985; M.A. 1986. Canada-U.S. Approaches to International Technology Transfer: The Case of Telecommunications.*

Doctors of Medicine
in The School of Medicine

Stacey Denise Anderson; *B.A., Harvard College, 1989*

Oneida Albania Arosarena; *B.A., Johns Hopkins University, 1989*

Paulina Joanna Asihene; *B.S., Georgia State University, 1989*

Carol Diana Barlage; *B.S., University of Toledo, 1989*

Diane Julie Bauer; *B.A., Columbia University, 1988*

Leah Rebekah Becicka; *B.S., University of Minnesota (Twin Cities), 1988*

Robert James Bingham; *B.A., Kenyon College, 1989*

Craig Alan Bittner; B.S., *University of Miami, 1989*

Philmore Alexander Blake; *B.A., Princeton University, 1989*

Peter Edward Braverman; *B.S., Columbia Univerisyt, 1988*

David Scott Bredt; *A.B., Princeton University, 1986*

Paul David Brettschneider; *B.A., Johns Hopkins University, 1989*

Scott Curtis Brun; *B.S., University of Illinois at Urbana-Champaign, 1989*

Carolyn Raguet Burrow; *A.B., Princeton University, 1986*

Jeffrey Anthony Cadeddu; *B.S., Johns Hopkins University, 1989*

Mark Lawrence Cannon; *B.A., University of Wisconsin (Madison), 1989*

Alexis John Carras; *B.A., Johns Hopkins University, 1989*

Elizabeth Sarah Chabner; *B.A., Yale University, 1989*

Brandon Willie Chan; *B.A., Johns Hopkins University, 1988*

Andrew Ching-Hung Chang; *B.S., Massachusetts Institute of Technology, 1988*

Caroline Margaret Chang; *B.A., University of Texas at Austin, 1989*

Suephy Chen; *B.S., Massachusetts Institute of Technology, 1989*

Theodore Chow; *B.A., Princeton University, 1989*

Jennifer Holly Christensen; *B.S., Drake University, 1989*

Charles Bernard Clagett, Jr.; *B.A., Johns Hopkins University, 1987*

Carolyn Theresa Cleary; *B.A., University of Virginia, 1988*

James Quentin Clemens; *B.A., Goshen College, 1989*

Harold Lane Cohen; *B.A., Western Maryland College, 1989*

Kathleen Loretta Collins; *B.A., Wellesley College, 1985*

Nathan Greenleaf Stone Congdon; *B.A., Princeton University, 1985; M.Phil., University of Cambridge, 1987*

Yvette Louise Crabtree; *B.A., Kansas State University, 1988*

Cameron Schmitz Crandall; *B.S., University of Washington, 1985*

Elizabeth Halstead Cuervo; *B.A., Dartmouth College, 1988*

Sonye Karen Danoff; *B.S., Emory University, 1985*

Robert Arthur Dudas; *B.A., Rutgers University (New Brunswick), 1989*

Nestor Felix Esnaola; *B.A., Rice University, 1989*

Elliott Nicholas Exar; *B.S., Duke University, 1987*

Stephanie Hope Factor; *B.A., Brown University, 1985*

Richard Wayne Fawcett; *B.A., University of California (Berkeley), 1988*

Christopher Dean Ferris; *B.A., Wabash College, 1986*

Shannon Fisher; *B.S., Purdue University, 1985*

Brian Edward Flowers; *B.A., University of California (Berkeley), 1988*

Christine Simone Freemer; *B.A., College of the Holy Cross, 1989*

Carol Parks Geer; *B.A., University of North Carolina (Chapel Hill), 1989*

Bala Krishna Giri; *B.A., Johns Hopkins University, 1989*

John Pierre Hakim; *B.A., University of Virginia, 1988*

Giselle Geneviève Hamad; *B.S., Massachusetts Institute of Technology, 1989*

Anil Kumar Hari; *B.A., Johns Hopkins University, 1989*

Rohan Hazra; *B.S., Yale University, 1988*

William Robert Hobbs; *B.A., University of Texas (Austin), 1989*

Gregory Horner; *B.S., Northwestern University, 1989*

Denise Howard; *B.A., The University of Mississippi, 1988*

Peter Robert Hubbs; *B.S., University of Michigan (Ann Arbor), 1989*

Rebecca Ellyn Humes; *B.A., College of William and Mary, 1989*

Grace Autumn Hutcheson; *B.S., Cornell University, 1989*

Paul Mingyou Hwang; *B.A., University of Kansas, 1985*

Lisa Beth Jacobs; *B.A., Kenyon College, 1987*

Clifford L. Jeng; *B.A., Columbia University, 1989*

Kris Harlan Jenner; *B.S., University of Illinois at Urbana-Champaign, 1984*

Calvin Barksdale Johnson; *B.S., Morehouse College, 1988*

Vilma Angella Aieleen Joseph; *B.S., Queens College (New York), 1989*

Nina Singh Kadan; *B.S., Johns Hopkins University, 1989*

Mindy Jill Katz; *B.A., Barnard College, 1986*

Linda Keirstead; *B.S., Ursinus College, 1989*

Karen Michiko Kling; *B.A., University of California (San Diego), 1988*

Ingrid Charlotte Kohlstadt; *B.S., University of Maryland (College Park), 1989*

David Franklin Kong; *A.B., A.M., Harvard College, 1989*

Stephanie Lynn Kouns; *B.S., Emory University, 1989*

Dario R. S. Kunar; *B.A., Columbia University, 1988*

Grace Ching-Ling Kung; *B.A., Johns Hopkins University, 1989*

Alladin Lajvardi; *B.A., University of California (San Diego), 1989*

Amy P. Lee; B.S., *Yale University, 1989*

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Kristen Sheryl Ring; *B.S., Oral Roberts University, 1990*

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Marion Ruth Sills; *A.B., Harvard University, 1987*

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Scott Owen Sykes; *B.A., Brigham Young University, 1989*

David Eric Symer; *A.B., Dartmouth College, 1984*

Christine Marie Szych; *B.S., Cornell University, 1989*

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William Man-Sing Tang; *B.A., Baylor University, 1989*

Marie-Blanche Nana Tchetgen; *B.A., Ohio Wesleyan University, 1989*

Nolan Herman Thompson, Jr.; *B.A., Yale University, 1984*

Marc Wayne Urquhart; *B.S., Iowa State University, 1989*

Francisco Vega-Bermudez; *B.S., Massachusetts Institute of Technology, 1984*

Louis Vernacchio; *B.A., Georgetown University, 1988*

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Mark Frederick Walker; *B.S., Rensalaer Polytechnic Institute, 1986*

Jeanette René White; *A.B., Dartmouth College, 1989*

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Mark Charles Witte; *B.S., B.A., Ohio State University, 1988*

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Doctors of Philosophy
in The School of Medicine

Mark Gerald Anderson; *B.S., University of Illinois at Urbana-Champaign, 1987. Biochemistry, Cellular and Molecular Biology Training Program–Molecular Biology and Genetics.* Molecular Analysis of Simian Immunodeficiency Virus Pathogenicity: Role of the LTR and Envelope Sequences.

Donald Bruce Arnold; *B.A.Sc., University of Toronto, 1986. Biomedical Engineering.* Investigations into the Cellular Mechanisms Underlying Neuronal Integration in the Oculomotor System.

David Oscar Azorsa; *B.S., University of Maryland, 1985. Pharmacology and Molecular Sciences.* Characterization of CD63: A Member of a Novel Superfamily of Transmembrane Proteins.

Heather Ann Bakalyar-Cole; *B.S., William Smith College, 1985. Biochemistry, Cellular and Molecular Biology Training Program–Molecular Biology and Genetics.* Olfactory Adenylyl Cyclase: A Member of a Multigene Family with Distinct Biochemical Properties.

Felice Faye Borisy; *B.S., California Institute of Technology, 1986. Neuroscience.* Identification, Characterization and Localization of Cyclic Nucleotide Phosphodiesterases Involved in Desensitization of Olfactory Signal Transduction.

David Scott Bredti; *B.A., Princeton University, 1986. Pharmacology and Molecular Sciences.* Nitric Oxide as a Neuronal Messenger Molecule.

Kevin Michael Callahan; *B.A., Gettysburg College, 1985. Molecular Biology and Genetics-Program in Immunology.* Studies on the Recognition of the HIV-1 Envelope Protein by Class II-Restricted T Cells.

Kathleen Limjoo Choi; *B.A., University of California, Berkeley, 1987. Neuroscience.* Mechanisms of Inactivation and Open Pore Blockade of Shaker Potassium Channels.

Kathleen Loretta Collins; *B.A., Wellesley College, 1985. Biochemistry, Cellular and Molecular Biology Training Program–Molecular Biology and Genetics.* The Role of DNA Polymerase Alpha B Subunit in SV40 DNA Replication.

Sonye Karen Danoff; *B.S., Emory University, 1985; M.Phil., Cambridge University, 1986. Neuroscience.* Neuron-specific Alternative Splicing of the Type I Inositol 1,4,5-Trisphosphate Receptor.

Ravinder S. Dhallan; *B.A., Johns Hopkins University, 1985. Biomedical Engineering.* Molecular Biology and Electrophysiology of Cyclic Nucleotide-gated Channels in Retinal and Olfactory Neurons and New Methods for DNA Modification.

Stephen Carl Ekker; *B.S., University of Illinois at Urbana-Champaign, 1988. Biochemistry, Cellular and Molecular Biology Training Program–Molecular Biology and Genetics.* Differential DNA Binding and the Specificity of Homeotic Gene Action.

Christopher Dean Ferris; *B.A., Wabash College, 1986. Neuroscience.* Functional Reconstitution of Inositol 1,4,5-Trisphosphate Receptor: Regulation by Adenine Nucleotides and Phosphorylation by Cyclic AMP Dependent Kinase, Protein Kinase C, and Calcium-Calmodulin Dependent Kinase II.

Rachel Shocket Fiore; *B.A., Johns Hopkins University, 1987. Neuroscience.* Localization and Regulation of p42 Mitogen-Activated Protein Kinase in Neuronal Systems.

Shannon Fisher; *B.S., Purdue University, 1985. Neuroscience.* Expression of the Amyloid Precursor Protein Gene in Mouse Embryogenesis and its Targeted Mutagenesis in Mouse Embryonic Stem Cells.

Elizabeth Dee Fixman; *B.S., Colorado State University, 1986. Pharmacology and Molecular Sciences.* cis and trans-Acting Requirements for Replication of Epstein-Barr Virus ori-Lyt.

Kreg George Gruben; *B.S., University of Illinois (Urbana-Champaign), 1985. Biomedical Engineering.* Mechanics of Pressure Generation During Cardiopulmonary Resuscitation.

Paul Mingyou Hwang; *B.S., University of Kansas, 1985. Neuroscience.* Molecular Mechanisms of Taste Receptor Cell Signal Transduction.

Tania Kastelic-Cheneval; *B.S., M.S., Simon Fraser University, 1984; 1987. Biochemistry, Cellular and Molecular Biology Training Program–Biological Chemistry.* Cloning, Disruption and Overexpression of the Murine Insulin Receptor.

William Gerard Kelly; *B.S., Belmont Abbey College, 1981; M.S., The University of Maryland, Baltimore County, 1985. Biochemistry, Cellular and Molecular Biology Training Program–Biological Chemistry.* Nuclear Glycosylation.

Karen Melinda Kozopas; *B.S., The Ohio State University, 1986. Biochemistry, Cellular and Molecular Biology Training Program–Physiology.* Studies of Human Myeloblastic Leukemia Cells: The Identification of Genes Induced Early During Monocytic Differentiation.

Fang Liao; *B.S., Fu-Jen Catholic University, 1980; M.S., National Taiwan University, 1982. Molecular Biology and Genetics-Program in Immunology.* Activation of PLC- Isozymes by Fc Receptor Ligation: Possible Deactivation by CD45.

Weei-Chin Lin; *M.B., National Taiwan University, 1986. Biochemistry, Cellular and Molecular Biology Training Program–Molecular Biology and Genetics.* Phosphorylation Regulates Activity and Stability of the V(D)J Recombination Activator Protein RAG-2.

Mahmoud Ihab Emam Mahmoud; *M.Sc., Al-Azhar University Faculty of Medicine, 1985; M.B.B.Ch., Cairo University Faculty of Medicine, 1978. Pharmacology and Molecular Sciences.* Intracellular Pharmacology of Cyclophosphamide and its Metabolites.

Shannath Louise Merbs; *B.S., University of Arizona, 1986. Biochemistry, Cellular and Molecular Biology Training Program–Molecular Biology and Genetics.* Photobleaching Difference Absorption Spectroscopy of Human Cone Pigments Responsible for Normal and Anomalous Color Vision.

Craig Robert Monell; *B.S., Harvey Mudd College, 1987. Pharmacology and Molecular Sciences.* Mechanisms of HIV-1 gp41 Induced Immunosuppression.

Leila K. Needham; *B.A., College of Notre Dame of Maryland, 1976. Neuroscience.* HNK-1 Reactive Sulfoglucuronyl-lipids: Cell Surface Carbohydrates and Complementary Receptors Potentially Involved in PNS Myelination.

Mark D. Pease; *B.S., University of Washington, 1983. Biochemistry, Cellular and Molecular Biology Training Program–Biophysics.* The Refined Crystal Structure of a Quasi-Stable Staphylococcal Nuclease Mutant: Hexagonal Space Group at 2.00 Angstroms Resolution.

Evelio Domingo Perez-Albuerne; *B.S., M.S., Yale University, 1985. Biochemistry, Cellular and Molecular Biology Training Program–Molecular Biology and Genetics.* Regulation of *jun-B* Expression in Cultured Mouse Fibroblasts.

Geoffrey Stuart Pitt; *B.A., Yale College, 1984; Sc.M., The Johns Hopkins University, 1987. Biochemistry, Cellular and Molecular Biology Training Program–Biological Chemistry.* Structurally Distinct and Stage Specific Adenylyl Cyclase Genes Control *Dictyostelium* Development.

Jeffery Alan Porter; *B.A., Hendrix College, 1987. Biochemistry, Cellular and Molecular Biology Training Program–Biological Chemistry.* Molecular Genetic Analysis of the Roles of the ninaC Kinase/Myosins in Drosophila Phototransduction.

Kenneth Ryan; *B.S., State University of New York (Stony Brook), 1982. Biochemistry, Cellular and Molecular Biology Training Program–Biological Chemistry.* Analysis of the Factors Required for Specific Initiation by RNA Polymerase I.

Lorraine M. Amory Soisson; *B.S., Cedar Crest College, 1988. Biochemistry, Cellular and Molecular Biology Training Program–Pharmacology and Molecular Sciences.* Assessment of Immunoprophylactic Potential and Molecular Characterization of a Recombinant Polypeptide of *Schistosoma mansoni.*

Robert T. Streeper; *B.S., M.S., Southern Illinois University of Edwardsville, 1986; 1989. Pharmacology and Molecular Sciences.* Mass Spectrometric Analysis of the Macromolecular Adducts Produced by the Alkyl Sulfamate Ester Hepsulfam.

Mark R. Sydorenko; *B.A., Northwestern University, 1983. Biomedical Engineering.* Analysis of Functional Connectivity in the Cat Dorsal Cochlear Nucleus.

David Eric Symer; *A.B., Dartmouth College, 1984. Biochemistry, Cellular and Molecular Biology Training Program–Biophysics.* Studies on the Control of Immune Responses by Defined Antigen Arrays.

Traci Mariye Tanaka; *B.S., University of California (Los Angeles), 1986. Pharmacology and Molecular Sciences.* The Immune-Dependent Action of Praziquantel: Molecular Characterization of a *schistosoma mansoni* Target Antigen.

Atul Varadhachary; *M.B.B.S., Lokmanya Tilak Municipal Medical College, 1985. Physiology.* The Biochemistry and Molecular Biology of the Phosphate-Linked Anion Exchangers.

Francisco Vega-Bermudez; *B.S., Massachusetts Institute of Technology, 1984. Neuroscience.* Spatial Structure of Primary Afferent Receptive Fields in the Somatosensory System.

Yanshu Wang; *B.S., University of Science and Technology of China, 1985. Biochemistry, Cellular and Molecular Biology Training Program–Molecular Biology and Genetics.* Regulation of Visual Pigment Gene Expression.

Anthony Raymond Welch; *B.S., M.S., Drexel University, 1987; 1989. Pharmacology and Molecular Sciences.* Identification and Characterization of a Herpesvirus Proteinase.

Lawrence M. Witmer; *A.B., Cornell University, 1982. Cell Biology and Anatomy.* Ontogeny, Phylogeny, and Air Sacs: The Importance of Soft-Tissue Inferences in the Interpretation of Facial Evolution in Archosauria.

Amina Sarah Woods; *B.S., Loyola College, 1972; M.S., University of Maryland at Baltimore, 1975. Pharmacology and Molecular Sciences.* Elucidation of Simian Cytomegalovirus Assembly Protein Processing Using Plasma Desorption Mass Spectrometry.

Doctors of Philosophy

in The G.W.C. Whiting School of Engineering

Randall T. Allemeier; *B.S. Montana State University, 1984; M.S. The Johns Hopkins University, 1990. Materials Science and Engineering.* A Feasibility Study of the Use of Heterodyne Detection of Brillouin Scattered Light for In-Process Monitoring of Materials.

Faris Afif Bandak; *B.S. University of Maryland, 1978; M.S. George Washington University, 1984. Mechanical Engineering.* Nanodislocation Structures Generated in Shocked Crystals.

Mary Ann Becker; *B.S. University of Rochester, 1982; M.S. North Carolina State University, 1988. Materials Science and Engineering.* The Characterization of the Initial Degradative Alterations of Bombyx mori Silk Fibroin: A Comparative Study of Artificially Aged Silk Fabric and Silk Fabrics from the First Ladies Collection, Smithsonian Institution, Washington, DC.

Patrick Bond; *B.A. Swarthmore College, 1983. Geography and Environmental Engineering.* Finance and Uneven Development in Zimbabwe.

Frederick Arthur Bonner II; *B.S.E. University of Michigan, 1986; M.S.E. The Johns Hopkins University, 1988. Geography and Environmental Engineering.* The Effects of Dissolved Organic Matter on Ultrafiltration for Potable Water Treatment: Experimental Studies with Natural and Model Compounds.

Stephen Howard Brown; *B.S. University of Maryland, 1984. Chemical Engineering.* Saccharides from High-Temperature Bacteria: Physiological and Enzymological Studies.

Robert Michael Conforti; *B.S. University of Scranton, 1984. Chemical Engineering.* The Effect of Lattice Compressibility on the Thermodynamics of Gas Sorption in Polymers.

Sherri Rumer Cooper; *B.S. Duke University, 1978; M.S. University of Delaware, 1982. Geography and Environmental Engineering.* The History of Diatom Community Structure, Eutrophication and Anoxia in the Chesapeake Bay as Documented in the Stratigraphic Record.

William Bradford Cross; *B.S. University of Maryland, 1984; M.S.E The Johns Hopkins University, 1984. Civil Engineering.* Analysis of the Seismic Performance of Connections in Historic Unreinforced Masonry Buildings.

Christoforos E. Economakos; *M.S.E. The Johns Hopkins University, 1991. Electrical and Computer Engineering.* Efficient Smoothing for Two-Dimensional Stochastic Signals Described by Partial Differential Equations.

Ioannis George Economou. *Chemical Engineering.* Molecular Thermodynamics of Associating Systems: Theory and Experiment.

Ruqiang Feng; *B.E.Shanghai University of Science and Technology, 1982; M.S.E The Johns Hopkins University, 1991. Mechanical Engineering.* Lubricant Rheology at High Shear Rates.

Christopher Treadwell Field; *B.S. Guilford College, 1980; M.S.E. The Johns Hopkins University, 1987. Electrical and Computer Engineering.* Optical Homodyne Communication Receivers with Photorefractive Beam Combiners.

Thomas Chung-Yee Fu. *Mechanical Engineering.* Particle displacement Velocimetry.

Glen David Gaddy; *B.S. The Johns Hopkins University, 1987; M.S.E., 1990. Materials Science and Engineering.* Characterization of Polyisocyanurate Foams: The Effect of Blowing Agents and Exposure Conditions on Physical, Chemical, and Microstructural Properties.

Mujtaba Raziuddin Ghouse. *Computer Science.* Randomized Parallel Computational Geometry in Theory and Practice.

Barry Edward Grabow; *B.S.E.E. Milwaukee School of Engineering, 1987; M.S.E. The Johns Hopkins University, 1990. Electrical and Computer Engineering.* Microwave and Optical Detection using Granular Bi-Sr-Ca-Cu-O Superconducting Thin Films.

William P. Hanson; *B.S. Dickinson College, 1980; M.S.E. The Johns Hopkins University, 1988. Materials Science and Engineering.* Nondestructive Evaluation Methods for Vibrating Quartz Resonators Using Synchrotron X-ray Topography and Laser Interferometry.

David George Heath; *B.S. California Institute of Technology, 1987. Computer Science.* A Geometric Framework for Machine Learning.

Nancy Kete; *B.S. Southern Illinois University, 1982. Geography and Environmental Engineering.* The Politics of Markets: The Acid Rain Control Policy in the 1990 Clean Air Act Amendments.

Humaira Khan; *B.A. Oxford University, 1985; M.A. The Johns Hopkins University, 1987. Geography and Environmental Engineering.* A Paleoecological Study of a Freshwater Tidal Marsh.

Guoan Li; *B.E. Northwestern Polytechnic University, 1982; M.S.E. The Johns Hopkins University, 1990. Mechanical Engineering.* Constitutive Models for Ductile Solids Reinforced by Spheroidal Inclusions.

Robert Scott Lillard; *B.S. University of Maryland, 1986; M.S.E. The Johns Hopkins University, 1991. Materials Science and Engineering.* An Investigation of the Corrosion Properties of Aluminum-Tantalum Alloys Using Electrochemical Impedance Spectroscopy and Local Electrochemical Impedance Spectroscopy.

N. Eric Arthur Lindgren; *B.S. The Johns Hopkins University, 1986; M.S.E., 1988. Materials Science and Engineering.* The Nondestructive Characterization of the Elastic Behavior of Nanocrystalline Metals by Monitoring the Crystallization Process in Amorphous Cobalt-Niobium-Boron.

Weimin Liu; *B.E. Beijing Institute of Technology, 1982; M.S.E. The Johns Hopkins University, 1990. Electrical and Computer Engineering.* An Analog Cochlear Model: Signal Representation and VLSI Realization.

Yasuhiro Mori; *M.E. Nagoya University, 1986. Civil Engineering.* Reliability-Based Condition Assessment and Life Prediction of Concrete Structures.

Sarah Elizabeth Mouring. *Civil Engineering.* Dynamic Response of Floor Systems to Building Occupant Activities.

Christian Victor O'Keefe; *B.S. The Johns Hopkins University, 1987; M.S., 1987; M.S.E., 1987. Electrical and Computer Engineering.* An Investigation of Multi-Parameter Fiber Optic Sensors with an Application for Strain and Temperature Differentiation Using a Novel Controlled Gauge Length Dual Two-Mode Fiber Optic Sensor.

Patricia Ann Parsons-Wingerter; *B.S. University of Michigan, 1983; M.S.E. Case Western Reserve University, 1989. Chemical Engineering.* Cooperitivity in Hepatocyte Culture from Cell-Cell and Cell-Substrate Interactions.

Jay Cobb Poret; *B.S. Rutgers University, 1987; M.S. University of Alabama, 1990. Materials Science and Engineering.* The Nondestructive Characterization of Gamma Irradiated Multimode Ge-P Doped Optical Fibers by Laser Generated Ultrasonics.

Bing Ran. *Mechanical Engineering.* Pressure Fluctuation Measurements and Their Effect on Cavitation Inception Within Water Jets.

Partha Pratim Sarkar; *B.Tech. Indian Institute of Technology at Kanpur; M.S. Washington State University, 1986. Civil Engineering.* New Identification Methods Applied to the Response of Flexible Bridges to Wind.

James Vincent Satrape; *B.S. Carnegie-Mellon University, 1980; M.S. George Washington University, 1986. Mechanical Engineering.* Interactions and Collisions of Bubbles in Thermocapillary Motion.

James Frederick Scanlon; *B.S. University of Rhode Island, 1986; M.S. Northeastern University, 1989. Materials Science and Engineering.* The Passivity of Iron and Nickel in Non-Aqueous Organic Solutions.

Marietta Rose Scanlon; *B.S. Tufts University, 1986; M.S. Massachusetts Institute of Technology, 1989. Materials Science and Engineering.* Mechanical Properties and Microstructure of Nanocomposite Thin Films.

Ching-Kuang Shene; *B.S. Tamkang University, 1971; M.S.E. The Johns Hopkins University, 1990. Computer Science.* Planar Intersection and Blending of Natural Quadrics.

David Alan Shifler; *B.A. Western Maryland College, 1973; M.S.E. The Johns Hopkins University, 1990. Materials Science and Engineering.* Passivity and Passivity Breakdown of 1018 Carbon Steel and 304 Stainless Steel in Nonaqueous Solvents and Mixed Solutions.

John Scott Steckenrider; *B.S.E. The Johns Hopkins University, 1987; M.S.E., 1990. Materials Science and Engineering.* Time-Resolved Holography for the Microscopic Study of Crack-Tip Motion in Dynamic Fracture.

Christopher Charles Streinz; *B.S.E. The Johns Hopkins University, 1988; M.S.E., 1990. Materials Science and Engineering.* A Microellipsometric Study of the Passive Film Formation on Solid Solution Al-Ta Alloys and the Role of Al_3Ta Precipitates in Breakdown.

Gang Sun; *B.S. Beijing University, 1984; M.S. Marquette University, 1988. Electrical and Computer Engineering.* Optically Pumped Blue Lasing ZnSe/ZnSSe Double Heterostructures and a Design of Far-Infrared Lasers Based on GaAs/AlGaAs Multiple Quantum Wells.

Xia Teng; *B.S. Beijing University of Science and Technology, 1984; M.S.E. The Johns Hopkins University, 1990. Materials Science and Engineering.* Application of Ultrasonic Tomography in Industrial Materials.

Arun Thomas; *B.Tech. Indian Institute of Technology, 1986. Chemical Engineering.* An Equation of State for Chain Molecules Using a Site-Interaction Model with Simulations and Integral Equations.

Christine Louise Tiller; *B.S. California Institute of Technology, 1985; M.S.E. The Johns Hopkins University, 1986. Geography and Environmental Engineering.* Colloidal Stability in Natural Waters: Experimental and Model Studies of the Role of Natural Organic Matter.

Alma Estes Wickenden; *B.S. The Johns Hopkins University, 1985; M.S.E., 1989. Materials Science and Engineering.* A Study of Gallium Nitride Films Grown on (0001) Sapphire by Metalloganic Chemical Vapor Deposition.

Doctors of Philosophy in The School of Arts and Sciences

Susan Aaronson; *B.A. State University of New York, 1976; M.A. The Johns Hopkins University, 1990. History.* For the People but not By the People: A History of the International Trade Organization (ITO).

Christine Marie Adams; *B.A. University of Minnesota, 1985; M.A. The Johns Hopkins University, 1990. History.* Bourgeois Identity in Early Modern France: A Professional Family in Eighteenth-Century Bordeaux.

Asma Afsaruddin; *B.A. Oberlin College, 1982; M.A. The Johns Hopkins University, 1985. Near Eastern Studies.* A Shiiti Polemic Against al-Jahiz: The BINA AL-MAQALA AL-FATIMIYA of Ahmad ibn Tawus.

Shifra Armon; *B.A. William Smith College, 1978; M.A. The Johns Hopkins University, 1985. Hispanic and Italian Studies.* Mariana de Caravajal's NAVIDADES DE MADRID Y NOCHES ENTRETENIDAS: An Anatomy of Courtesy.

Carl Joseph Baldick, Jr.; *B.S. University of Maryland, 1984. Biology.* Vaccinia Virus Intermediate-Stage Genes: Characterization of the Temporal mRNA Regulation, mRNA Structure, and Promoter Elements.

George Franklin Barker; *B.A. Williams College, 1986. Biology.* Translation Stabilizes Rous Sarcoma Virus Unspliced RNA.

Laura Benedetti; *Laurea Universita Degli Studi Di Roma, 1986; M.A. The Johns Hopkins University, 1992. Hispanic and Italian Studies.* Diana Defeated: a Reading of Tasso's "Gerusalemme Liberata".

Johanna Maria Catharina Blom; *M.A. The Johns Hopkins University, 1990. Psychology.* Environmental Influences on Immune Function and the Susceptibility to Disease: Effects of Photoperiod and Learning.

József Martha Böröcz; *M.A. The Johns Hopkins University, 1991. Sociology.* Leisure Migration under Capitalism and State Socialism: An Austro-Hungarian Comparison.

Susan Kucinski Brems. *Anthropology.* Caretakers of Blood: Fertility Transition in Rural Northeast Brazil.

Peter John Brimble; *B.S. London School of Economics, 1978; M.A. Georgetown University, 1980. Economics.* Industrial Development and Productivity Change in Thailand.

Linda Carol Bullions; *B.S. Allegheny College, 1987. Biology.* Studies on the mutT Enzyme from *Escherichia coli* and *Staphylococcus pneumoniae.*

Timothy James Burke; *B.A. Wesleyan University, 1986; M.A. The Johns Hopkins University, 1989. History.* Lifebuoy Men, Lux Women: Commodification, Consumption and Cleanliness in Colonial Zimbabwe.

Christy Lee Burns; *B.A. Cornell University, 1984. Humanities Center.* The Mirror and the Razor Crossed: The Politics of Parody in James Joyce's *Ulysses* and Finnegans Wake.

James Alan Butler; *B.S. Illinois State University, 1982. Biology.* Purification and Characterization of Smooth Muscle Tensin.

Jean-Christophe B. Carry; *M.A. The Johns Hopkins University, 1989. Chemistry.* One-Flask, Consecutive (3,3) and (2,3) Sigmatropic Rearrange-ments for Conversions of Propargylic Alcohols into Two-Carbon-Extended 4-oxo-2alkenoate Esters. Use of a New 1-Chloro-1-ethoxy-2-sulfinylethylene. Stereocontrolled Diels-Alder Cycloadditions of 3-Carbonyl-2-pyrone Derivatives Leading to Highly Functionalized Cyclohexenes. Asymmetric Synthesis of an A-Ring Precursor to Physiologically Active 1 Alpha-Hydroxyvitamin D_3 Steroids.

Margaret Dah-Tsyr Chang; *B.S. National Taiwan University, 1987; M.A. The Johns Hopkins University, 1991. Chemistry.* Clavaminate Synthase: A Molecular Biological View.

Sumantra Chattarji; *B.S. Calcutta University, 1984; M.S. Indian Institute of Technology at Kanpur. Biophysics.* Properties of Long-Term Depression in Area CA1 of the Hippocampus.

Yulong Chen; *B.S. Fuzhou University, 1982; M.A. The Johns Hopkins University, 1991. Chemistry.* The Inhibition of Trypsin with Active-Site-Directed Enzyme-Activated N-Nitrosamide Substrates.

Ava Chitwood; *B.A. University of Massachusetts, 1981; M.A. The Johns Hopkins University, 1983. Classics.* The Deaths of the Greek Philosophers.

Jerry Steven Cohen; *B.A. Columbia College, 1978. Biophysics.* The Dependence of Growth on Angular Position in the Developing *Xenopus* Eye.

Thomas Patrick Cole. *History.* History and Historical Consciousness in Colonial British America: A Study in the Construction of Provincial Cultures.

Francesca Consagra; *B.A. Connecticut College, 1980; M.A. The Johns Hopkins University, 1982. History of Art.* The DeRossi Family Print Publishing Shop: A Study in the History of the Print Industry in Seventeenth-Century Rome.

Karin Marie Cope; *B.A. Yale University, 1985. Humanities Center.* Gertrude Stein, Pablo Picasse and the Love of Error.

John William Curtis; *B.A. University of Wyoming, 1984. Sociology.* Rural Ties Among Men Working in Nairobi: Social Networks and Differentiation in the Political Economy of Kenya.

Eleonora Cussini; *Laurea, University of Venice, 1986. Near Eastern Studies.* The Aramaic Law of Sale and the Cuneiform Legal Tradition.

DeAnn DeLuna; *B.A. University of Southern California, 1980; M.A., 1984. English.* Discovering Defoe's Satire.

John Rudolph Desjarlais; *B.S. University of Massachusetts, 1987. Biophysics.* Design of DNA Binding Proteins Using the Zinc Finger Motif.

Kimberly Floy Doheny. *Biology.* Identification and characterization of kinetochore proteins in *Saccharomyces cerevisiae.*

Mauro Dorato; *Laurea, University of Rome, 1982; M.A. The Johns Hopkins University, 1988. Philosophy.* The Reality of the Future: Spacetime Physics and the Objectivity of Temporal Becoming.

Kristiann Mary Dougherty; *B.S. Purdue University, 1987. Biology.* Cloning and expression of human genes involved in proline metabolism in Saccharomyces cerevisiae.

Ralph El-Chami; *B.S. American University of Beirut, 1983; M.A. The Johns Hopkins University, 1988. Economics.* Essays on Private Income Transfers and Wealth Accumulations in the Presence of Asymmetric Information.

Ellen Cooper Erdreich; *B.A. Wellesley College, 1962; M.A. New York University, 1966. History of Art.* "Qui hos cultus pinxerit?" Illumination Associated with Bartolomeo Sanvito (circa 1435-circa 1512).

Daniel Mark Ferber; *B.S. Duke University, 1984. Biology.* Interaction of the membrane-bound hydrogenase of Bradyrhizobium japonicum with *phosphohpid and ubiquihone.*

Jeffrey Hugh Fischer ; *B.A. University of Pennsylvania, 1986; M.A. The Johns Hopkins University, 1989. Economics.* Consumer Search and Firm Clustering with Heterogeneous Goods.

Nancy Ellen Forgione; *B.A. The Johns Hopkins University, 1974; M.A., 1982. History of Art.* Edouard Vuillard in the 1890s: Intimism, Theater, and Decoration.

Kathryn Helgesen Fuller; *B.A. Agnes Scott College, 1982; M.A. The Johns Hopkins University, 1989. History.* Shadowland: American Audiences and the Movie-going Experience in the Silent Film Era.

El-Sayed M. Gad; *B.A. University of Alexandria in Egypt, 1978; M.A. The Johns Hopkins University, 1986. Classics.* Social Status and Signs of Status in Classical Athens.

Alessandra Galizzi; *Laurea, Universitá Cattolica del Sacro Cuore, 1983; M.A. The Johns Hopkins University, 1985. History of Art.* Flying Babies in Emilian Painting: Iconographies of the Immaculate Conception circa 1500.

Qing-Fen Gan; *B.S. Beijing University, 1984; M.A. The Johns Hopkins University, 1991. Chemistry.* Study of the Reactions of Tri- and Dinuclear Copper(I) Complexes with Dioxygen Involving N-Deakylation Chemistry.

Paul Chisholm Genest; *B.A. University of Guelph, 1981; M.A. The Johns Hopkins University, 1987. Philosophy.* Socratic *Eros* and *Philia.*

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